



LADDL

IMMUNOHISTOCHEMISTRY FEE SCHEDULE

225-578-9711

Louisiana Animal Disease Diagnostic Laboratory

Please Note: The listed fee is the price charged to the veterinarian for LADDL's diagnostic test. Clients of veterinarians should expect their final cost to be higher to compensate for professional input, such as specimen collection and preparation, shipping and handling, interpretation of test results and incorporation of those results into a treatment plan.

| Test Description | Code | Fee | Schedule | Estimated Turnaround Time ¹ |
|---|-------|---------|----------|--|
| INFECTIOUS AGENTS IHC^{2,3} | | | | |
| BACTERIAL AGENTS IHC | | | | |
| Chlamydia species ⁴ | IH001 | \$35.00 | M-F | 24-48 hrs |
| Listeria | IH002 | \$35.00 | M-F | 24-48 hrs |
| Salmonella species ⁴ | IH003 | \$35.00 | M-F | 24-48 hrs |
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| FUNGAL AGENTS IHC | | | | |
| Fungal agents ⁴ | IH004 | \$35.00 | M-F | 24-48 hrs |
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| VIRAL AGENTS IHC | | | | |
| Bovine viral diarrhea virus (BVDV) | IH005 | \$25.00 | M-F | 24-48 hrs |
| Canine Distemper virus (CDV) ⁴ | IH006 | \$40.00 | M-F | 24-48 hrs |
| Canine parvovirus (CPV)/Feline panleukopenia virus (FPV) ⁴ | IH007 | \$40.00 | M-F | 24-48 hrs |
| Eastern Equine Encephalitis virus (EEEV) | IH008 | \$40.00 | M-F | 24-48 hrs |
| Equine arteritis virus (EAV) | IH009 | \$40.00 | M-F | 24-48 hrs |
| Equine herpesvirus type 1 (EHV-1) ⁴ | IH010 | \$40.00 | M-F | 24-48 hrs |
| Feline calicivirus (FCV) ⁴ | IH011 | \$40.00 | M-F | 24-48 hrs |
| Feline infectious peritonitis virus (FIP) | IH012 | \$40.00 | M-F | 24-48 hrs |
| Feline Leukemia virus (FeLV) ⁴ | IH013 | \$40.00 | M-F | 24-48 hrs |
| Influenza virus A ⁴ | IH014 | \$40.00 | M-F | 24-48 hrs |
| Papillomavirus | IH015 | \$40.00 | M-F | 24-48 hrs |
| Rabies ⁴ | IH016 | \$40.00 | M-F | 24-48 hrs |
| SARS Coronavirus 2 (SARS-CoV-2) | IH017 | \$40.00 | M-F | 24-48 hrs |
| West Nile virus (WNV) | IH018 | \$40.00 | M-F | 24-48 hrs |

| PRION DISEASES IHC | | | | |
|--|-------|---------|-----|-----------|
| Chronic wasting disease (CWD) surveillance: formalin fixed tissues (stained obex and lymph nodes on one slide/animal) - In State Contract *Additional charges for specimen collection and disposal | IH019 | \$30.00 | M-F | 1-2 weeks |
| Chronic wasting disease (CWD) surveillance: formalin fixed tissues (stained obex and lymph nodes on one slide/animal) - Directly received from hunters or farmers in Louisiana *Additional charges for specimen collection and disposal | IH020 | \$45.00 | M-F | 1-2 weeks |
| Chronic wasting disease (CWD) surveillance: formalin fixed tissues (stained obex and lymph nodes on one slide/animal) - Out of State *Additional charges for specimen collection and disposal | IH021 | \$45.00 | M-F | 1-2 weeks |
| Chronic wasting disease (CWD) <u>suspected clinical case</u> (i.e., emaciated or suspected cases): formalin fixed tissues (stained obex and lymph nodes on two slide/animal as required by the NVSL) - In state or out of state *Additional charges for specimen collection and disposal | IH022 | \$55.00 | M-F | 1-2 weeks |
| Scrapie surveillance: formalin fixed tissues (stained obex and lymph nodes on one slide/animal) - requires approval from the State Veterinarian | IH023 | \$45.00 | M-F | 1-2 weeks |
| *Obex/lymph node collection | IH106 | \$20.00 | NA | NA |
| PROTOZOAN PARASITES IHC | | | | |
| <i>Neospora caninum</i> ⁴ | IH024 | \$45.00 | M-F | 24-48 hrs |
| <i>Sarcocystis neurona</i> | IH025 | \$45.00 | M-F | 24-48 hrs |
| <i>Trypanosoma cruzi</i> ⁴ | IH026 | \$45.00 | M-F | 24-48 hrs |
| <i>Toxoplasma gondii</i> | IH027 | \$45.00 | M-F | 24-48 hrs |
| RESEARCH IHC AND ASSAY OPTIMIZATION | | | | |
| Antibody (single antibody and detection kit provided by LADDL. This is the base or standard IHC fee/slide) - staining, and coverslipping/slide | IH028 | \$35.00 | M-F | 24-48 hrs |
| Antibody (single antibody) provided by the researcher, detection kit provided by LADDL) /slide | IH029 | \$30.00 | M-F | 24-48 hrs |
| Antibody (single antibody and detection kit provided by LADDL); cut sections provided by the researcher - staining, and coverslipping/slide | IH030 | \$35.00 | M-F | 24-48 hrs |
| Antibody (single) and the sections provided by the researcher, and detection kit provided by LADDL - staining, and coverslipping/slide | IH031 | \$30.00 | M-F | 24-48 hrs |
| Antibody (single), mouse on mouse (M.O.M) - Antibody and M.O.M. detection kit provided by LADDL | IH032 | \$45.00 | M-F | 24-48 hrs |

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|--|-------|---------------|-----|-------------------|
| Antibody (single) purchased and provided by the researcher. M.O.M. detection kit provided by LADDL - staining, and coverslipping/slide | IH033 | \$40.00 | M-F | 24-48 hrs |
| Antibody and the M.O.M. detection kit is provided by the researcher - staining, and coverslipping/slide | IH034 | \$30.00 | M-F | 24-48 hrs |
| IHC service bench fee - antibody (single) IHC assay optimization ⁵ | IH035 | \$150.00 | M-F | 5-10 working days |
| IHC service bench fee - dual antibody IHC assay optimization (brown and red) with antibodies provided by the researcher ⁶ | IH036 | \$1000-\$1500 | M-F | 2-3 weeks |
| Dual IHC (brown and red) with antibodies provided by researcher - fee/slide after optimization | IH037 | \$60.00 | M-F | 24-48 hrs |
| <u>SPECIFIC CELLULAR ANTIGEN MARKERS IHC</u> | | | | |
| Actin, sarcomeric | IH038 | \$35.00 | M-F | 24-48 hrs |
| Alpha1 antitrypsin ⁴ | IH039 | \$35.00 | M-F | 24-48 hrs |
| Smooth muscle actin (SMA) | IH040 | \$35.00 | M-F | 24-48 hrs |
| Cytokeratin AE1/AE3 | IH041 | \$35.00 | M-F | 24-48 hrs |
| Cytokeratin MNF-116 | IH042 | \$35.00 | M-F | 24-48 hrs |
| Cytokeratin 7 | IH043 | \$35.00 | M-F | 24-48 hrs |
| Desmin | IH044 | \$35.00 | M-F | 24-48 hrs |
| Insulin | IH045 | \$35.00 | M-F | 24-48 hrs |
| Lysozyme | IH046 | \$35.00 | M-F | 24-48 hrs |
| MHC II | IH047 | \$35.00 | M-F | 24-48 hrs |
| Myelin basic protein | IH048 | \$35.00 | M-F | 24-48 hrs |
| <u>CD MARKERS SMALL ANIMALS IHC</u> | | | | |
| Feline and canine CD3 (T cell) | IH049 | \$35.00 | M-F | 24-48 hrs |
| Clinical pathology canine and feline CD3 and CD79a (B and T cell lymphoma panel) | IH050 | \$50.00 | M-F | 24-48 hrs |
| Canine CD11d | IH051 | \$40.00 | M-F | 24-48 hrs |
| Canine CD18 | IH052 | \$40.00 | M-F | 24-48 hrs |
| Feline CD18 | IH053 | \$40.00 | M-F | 24-48 hrs |
| Canine and feline CD20 | IH054 | \$35.00 | M-F | 24-48 hrs |
| Canine CD31 | IH055 | \$35.00 | M-F | 24-48 hrs |
| Feline CD61 | IH056 | \$35.00 | M-F | 24-48 hrs |
| Canine CD68 | IH057 | \$35.00 | M-F | 24-48 hrs |
| Canine CD79a | IH058 | \$35.00 | M-F | 24-48 hrs |
| <u>CD MARKERS EQUINE IHC</u> | | | | |
| CD2 (fresh frozen sections only) | IH059 | \$35.00 | M-F | 48-72 hrs |

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| CD3 (monoclonal antibody or polyclonal antibody) | IH060 | \$35.00 | M-F | 24-48 hrs |
| Equine CD3 (UC F6G-3; fresh frozen sections only) | IH061 | \$35.00 | M-F | 48-72 hrs |
| Equine CD4 (fresh frozen sections only) | IH062 | \$35.00 | M-F | 48-72 hrs |
| Equine CD5 (fresh frozen sections only) | IH063 | \$35.00 | M-F | 48-72 hrs |
| Equine CD8 (fresh frozen sections only) | IH064 | \$35.00 | M-F | 48-72 hrs |
| CD18 | IH065 | \$40.00 | M-F | 24-48 hrs |
| CD20 | IH066 | \$35.00 | M-F | 24-48 hrs |
| CD21 (fresh frozen sections only) | IH067 | \$35.00 | M-F | 48-72 hrs |
| CD25 | IH068 | \$35.00 | M-F | 48-72 hrs |
| CD31 (PECAM-1) | IH069 | \$35.00 | M-F | 48-72 hrs |
| CD83 (fresh frozen sections only) | IH070 | \$35.00 | M-F | 48-72 hrs |
| CD86 (fresh frozen sections only) | IH071 | \$35.00 | M-F | 48-72 hrs |
| CD163 | IH072 | \$40.00 | M-F | 48-72 hrs |
| CD172a (fresh frozen sections only) | IH073 | \$35.00 | M-F | 48-72 hrs |
| CD204 | IH074 | \$40.00 | M-F | 48-72 hrs |
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| <u>CLINICAL PATHOLOGY IHC</u> | | | | |
| CD3 & CD20, including controls | IH075 | \$50.00 | M-F | 24-48 hrs |
| Other cellular markers | IH076 | \$30.00 | M-F | 24-48 hrs |
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| <u>TUMOR MARKERS IHC</u> | | | | |
| C-kit (CD117) | IH077 | \$40.00 | M-F | 24-48 hrs |
| Chromogranin A | IH078 | \$40.00 | M-F | 24-48 hrs |
| Factor VIII (von Williebrand factor) | IH079 | \$40.00 | M-F | 24-48 hrs |
| Glial Fibrillary Acidic Protein (GFAP) | IH080 | \$40.00 | M-F | 24-48 hrs |
| Iba-1 | IH081 | \$40.00 | M-F | 24-48 hrs |
| Kappa light chain | IH082 | \$40.00 | M-F | 24-48 hrs |
| Ki67 | IH083 | \$40.00 | M-F | 24-48 hrs |
| Lambda light chain | IH084 | \$40.00 | M-F | 24-48 hrs |
| Melan A | IH085 | \$40.00 | M-F | 24-48 hrs |
| MUM-1 | IH086 | \$40.00 | M-F | 24-48 hrs |
| Myeloid Histiocytic (calprotectin; MAC387) | IH087 | \$40.00 | M-F | 24-48 hrs |
| Myoglobin | IH088 | \$40.00 | M-F | 24-48 hrs |
| Neuron-specific enolase | IH089 | \$40.00 | M-F | 24-48 hrs |
| Neurofilament | IH090 | \$40.00 | M-F | 24-48 hrs |
| PAX5 | IH091 | \$40.00 | M-F | 24-48 hrs |
| PNL-2 | IH092 | \$40.00 | M-F | 24-48 hrs |
| S100 | IH093 | \$40.00 | M-F | 24-48 hrs |
| Somatostatin | IH094 | \$40.00 | M-F | 24-48 hrs |
| Synaptophysin | IH095 | \$40.00 | M-F | 24-48 hrs |

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| Thyroglobulin | IH096 | \$40.00 | M-F | 24-48 hrs |
| TRP-1 | IH097 | \$40.00 | M-F | 24-48 hrs |
| TRP-2 | IH098 | \$40.00 | M-F | 24-48 hrs |
| Tyrosinase4 | IH099 | \$40.00 | M-F | 24-48 hrs |
| Vimentin | IH100 | \$35.00 | M-F | 24-48 hrs |
| TUMOR PANELS | | | | |
| Mast cell tumors (prognostic): C-Kit, and Ki-67 staining. <i>Note: PCR C-Kit Exon 11 available as a separate test (please see molecular diagnostic section fee schedule)</i> | IH101 | \$80.00 | M-F | 24-48 hrs |
| Melanoma complete panel - melan A, PNL-2, TRP-1, TRP-2 (cocktail), and Ki-67 | IH102 | \$150.00 | M-F | 24-48 hrs |
| Melanoma diagnostic panel (cocktail) melan A, PNL-2, TRP-1, TRP-2 | IH103 | \$80.00 | M-F | 24-48 hrs |
| Tumor antibody panel (any combination) - up to three antibodies individually stained slides ⁷ | IH104 | \$100.00 | M-F | 24-48 hrs |
| Tumor antibody panel (any combination) - up to five antibodies individually stained slides ⁷ | IH105 | \$160.00 | M-F | 24-48 hrs |
| SPECIAL IHC SERVICES | | | | |
| Antigen retrieval only (researcher provides slides or otherwise fee applies for paraffin sections)- sectioned slides that undergo antigen retrieval in Decloacker or water bath. Researcher must schedule a time to pick up slides. | ISS106 | \$15.00 | M-F | 24-48 hrs |
| Paraffin sections for IHC staining (first slide) | ISS107 | \$8.00 | M-F | 24-48 hrs |
| Paraffin sections for IHC staining (additional slides from the same block) | ISS108 | \$3.00 | M-F | 24-48 hrs |
| IHC services - Special research projects, technical time/hour. | ISS109 | \$60.00 | M-F | NA |
| RNAscope® IN SITU HYBRIDIZATION (ISH) | | | | |
| RNAscope® service bench fee ⁸ | ISH110 | \$500.00 | Tu & Thu | 2-4 weeks |
| Leica BondRxm instrument user fee/slide (up to 20 slides per run) ⁹ | ISH111 | \$18.00 | M-F | 2-4 weeks |
| Bulk reagents/slide ⁹ | ISH112 | \$4.00 | M-F | 2-4 weeks |
| Technical effort/slide (up to 20 slides per run) ⁹ | ISH113 | \$3.00 | M-F | 2-4 weeks |

| IHC SUPPLIES | | | | |
|-------------------------------------|--------|-------------------------------|----|----|
| Box of accu-edge blades | IHS114 | \$110.00/box; \$2.00/blade | NA | NA |
| Coverslips | IHS115 | \$20.00/box | NA | NA |
| Screened cassettes | IHS116 | \$0.65/each; \$150.00/case | NA | NA |
| Slide box, plastic, 25 slides | IHS117 | \$5.00/each | NA | NA |
| Slide box, plastic, 50 slides | IHS118 | \$7.00/each | NA | NA |
| Slide box, plastic, 100 slides | IHS119 | \$15.00/each | NA | NA |
| Slides | IHS120 | \$35.00/box | NA | NA |
| Sponges | IHS121 | \$40.00/bag | NA | NA |
| Test cancellation fee | IHS122 | \$17.00 | NA | NA |
| Miscellaneous fees/special services | IHS123 | \$1.00- \$1000.00 | NA | NA |
| Fee adjustment | IHS124 | Variable | NA | NA |
| Fee Reversal | IHS125 | \$0.00 | NA | NA |
| STAT fee ¹ | IHS126 | \$10.00 | NA | NA |

IHC Laboratory Phone #: 225-578-9711

¹ Same day service available for an additional fee (STAT fee) - \$10.00/slide. Request has to be made before 10 am M-F.

² Fee for each IHC test may vary because of the cost of the antibodies and dilutions used varies significantly. Furthermore some fees are subsidized to support the industry (e.g., BVDV for cattle).

³ Single antibody and detection kit provided by LADDL.

⁴ Assays under development, please contact Drs. Mariano Carossino and Udeni Balasuriya or Ms. Kimberly Harper for more information on their availability. We currently have additional staining capabilities (i.e., multiplex IHC/IF, multiplex RNAscope[®], TUNEL, and FISH), and please contact us to schedule a meeting (**phone: 225-578-9711 or e-mail: klegaux1@lsu.edu**).

⁵ IHC single antibody optimization: Any request where the researcher provides their own antibody and/or kit will have an additional \$150 charge added to their bill for assay optimization. The antibody will be titrated and optimized under different retrieval conditions for up to a maximum of 6 slides. The researcher needs to provide an appropriate tissue control for the marker attempted. If the optimization requires more slides to optimize and consumes more technical effort, and an additional, \$60.00/h will be charged for the research associate's time spent on the project. NOTE: When the researcher purchased an antibody and/or reagent kits, it requires optimization. The IHC antibody optimization fee includes applying various retrieval methods and concentrations until the antibody is successfully optimized (up to 6 slides, each additional slide charged separately). Additional sectioning and slide preparation charges will be applied (\$8.00 first slide and \$3.00 for each additional slide).

⁶ *IHC dual antibodies optimization: Any request where the researcher provides their own antibodies and/or kit will have an additional \$1000-\$1500 charge added to their bill for dual staining on a single slide. The antibody will be titrated and optimized under different retrieval conditions (total of 25 slides [12 single and 13 dual stained] are estimated for assay optimization). The researcher needs to provide an appropriate tissue control for the marker attempted. If the optimization requires more slides to optimize and consumes more technical effort, each additional slide will be charged separately at the rate that applies and an additional, \$60.00/h will be charged for the research associate's time spent on the project. NOTE: When the researcher purchased the two antibodies and/or reagent kits, the IHC antibody optimization fee includes applying various retrieval methods and concentrations until the antibody is successfully optimized (up to 25 slides [12 single and 13 dual stained], each additional slide charged separately). Additional sectioning and slide preparation charges will be applied (\$8.00 first slide and \$3.00 for each additional slide).*

⁷ Separate fee for processing, paraffin embedding, and sectioning of tissues to prepare for IHC staining will be charged (\$8.00 /first slide and additional slide \$3.00/slide).

⁸ RNAscope[®] assay optimization bench fee (researcher provides slides, probes and reagents). The assay optimization will require approximately 20 slides. Note: If the optimization requires more effort and consumes more technical effort additional \$60.00/hr will be charged for the research associate's time spent on the project, and each additional slide charged separately. For optimization of RNAscope[®] assays, please contact the lab to schedule a meeting.

⁹ *Researcher provides the probes, and reagents from ACD. User fee/slide, bulk reagents/slide and technical effort/slide apply. Sections can be obtained at LADDL at an additional fee (see above). LADDL can purchase directly from ACD upon request from the researcher at a discounted core facility price provided a current PG number is given (LSU users only). Other users, please contact Drs. Mariano Carossino and Udeni Balasuriya or Ms. Kimberly Harper for more information (phone: 225-578-9711 or e-mail: klegaux1@lsu.edu).*