



IHC image of neurons in rat amygdala.

Calbindin D-28K Antibody

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| Catalog # | 24427 | Product type | Primary antibodies |
| Lot # | 549102 | Clonality | Polyclonal |
| Form | Lyophilized whole serum (100 µL) | Isotype | IgG |
| Host | Rabbit | Preservative | ≤ 0.09% sodium azide |
| Reacts With | Mouse, Rat | Antigen | Calbindin D-28K purified from bovine cerebellum. |

INSTRUCTIONS

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| Preparation | Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be kept cooled during shipping; however for long-term storage, store lyophilized antibody until ready to use at -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2°–8°C. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot and freeze at -15°C or lower. Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas. |
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APPLICATION

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| IHC Quality Control | The antibody has significant biotin-avidin/HRP staining at a 1/5,000 –1/10,000 dilution and significant indirect immunofluorescence staining at a 1/5,000–1/10,000 dilution in rat striatum, cortex, and hippocampus. The antiserum has been characterized as specific to calbindin D-28k; please see reference listed below. Optimal dilution will vary depending upon fixation, labeling technique and/or detection system; therefore, a dilution series is recommended. |
| Tissue | Rat striatum, hippocampus, and cortex |
| Perfusion Fixation | <ul style="list-style-type: none"> • Fixative: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min. • Post fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4. • Note: If needed, low levels of glutaraldehyde (0.1–0.3%) may be used in conjunction with paraformaldehyde. |
| Sections | 10 µm cryostat or 50 µm vibratome |
| Tissue Incubation | 18–24 hours at 2°–8°C. |
| Detection System | Use Cy3 or Bn/Av-HRP according to manufacturer's directions. |
| Suggested Dilution | 1/10,000–1/15,000 in PBS/0.3% Triton X-100 - Bn-SA/HRP immunohistochemistry |

NOTES

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| Special Instructions | It is recommended that the researcher perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system from our protocol may change the configuration of the protein which could alter the reactivity with the tissue tested. |
| Storage | After reconstitution, use immediately or refrigerate 2°–8°C up to 2 days. For long-term storage, aliquot antibody and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles. |
| Concentration | Not applicable. Antibody concentration is only relevant for purified antibodies. |
| Journal References | www.immunostar.com/publications |

For Laboratory Reagent Use Only. Analytical and performance characteristics are not established.

ALL PRODUCTS ARE FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE RRID:AB_572222