



IHC image of neurons in rat cortex.

Calretinin Antibody

Catalog #	24445	Product type	Primary antibodies
Lot #	1308001	Clonality	Polyclonal
Form	Lyophilized whole serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% Sodium Azide
Species Reactivity	Rat	Antigen	Chick calretinin fusion protein.

INSTRUCTIONS

Preparation	<p>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.</p> <p>Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.</p>
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APPLICATION

Quality Control	The antibody has significant biotin-avidin/HRP staining at a 1/1,000–1/4,000 dilution in rat cortex, hippocampus and hypothalamus. The antiserum has been characterized as specific to calretinin; please see references listed below. Optimal dilution will vary depending upon fixation, labeling technique and/or detection system; therefore, a dilution series is recommended.
Tissue	Rat cortex, hippocampus, and hypothalamus
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	Bn-Av/HRP reagents at dilutions recommended by the manufacturer.
Suggested Dilution	1/1,000–1/4,000 in PBS/0.3% Triton X-100 - Bn-Av/HRP immunohistochemistry

NOTES

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 at 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