NEUROMICS

Calbindin D-28K Data Sheet

Catalog Number:	RA24427	**Host:**	Rabbit
Product Type:	Whole Serum	**Species Reactivity:**	Mouse, Rat
Immunogen Sequence:	Calbindin D -28K purified from bovine cerebellum.	**Format:**	100ul Lyophilized, ≤ 0.09% sodium azide

Applications: **Immunohistochemistry:** 1:10,000–1:15,000 in PBS/0.3% Triton X-100 – Bn-AV/HRP
Immunofluorescence: Recommended Dilution: 1:500-1:1000 for indirect immunofluorescence

Storage and Preparation: Storage: Dilute with phosphate buffer or Tris buffer at dilutions no higher than 1/10, aliquot and freeze at -15° C or lower. Antibody can be stored for up to six months if handled as described above.

It is strongly recommended that the customer perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system as used in our protocol may change the configuration of the protein and, therefore, may alter the reactivity with the tissue tested.

Application Notes for Immunohistochemistry

Tissue: Rat striatum, hippocampus, and cortex. The antiserum has been characterized as specific to calbindin D-28k

Perfusion Fixation • Fixation: 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: Paraformaldehyde is a necessary component of fixation for this antiserum. If needed for other applications, glutaraldehyde may be used at low levels (0.1–0.3%) 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.

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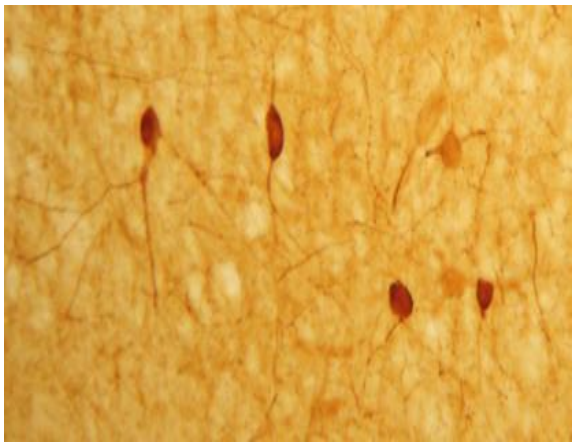
IHC image of neurons staining for the calbindin in the rat cortex. The tissue was fixed with 4% formaldehyde in 0.1 M phosphate buffer, before being removed and prepared for vibratome sectioning. Floating sections were incubated at RT in 10% goat serum in PBS, before standard IHC procedure. Primary antibody was incubated at 1:10000 for 48 hours, goat anti-rabbit secondary was subsequently added for 1 hour after washing with PBS. Light microscopy staining was achieved with standard biotin-streptavidin/HRP procedure and DAB chromogen. The section was then mounted on slides with permount.



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