

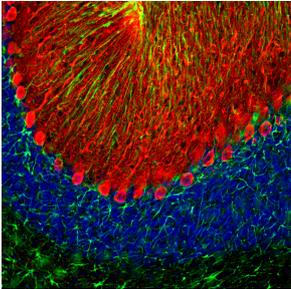
Anti-Calbindin Antibody [5A9] (A85362)

Specifications:

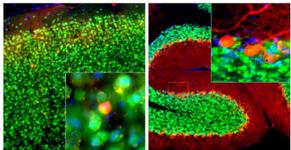
Name:	Anti-Calbindin Antibody [5A9]
Description:	Mouse monoclonal (5A9) antibody to Calbindin.
Specificity:	This antibody binds Calbindin cleanly but does not cross-react with the related Calretinin and Parvalbumin proteins. It is therefore ideally suited for identifying and subclassifying cortical GABAergic neurons.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:5,000, ICC/IF: 1:5,000, IHC: 1:5,000
Reactivity:	Human, Rat, Mouse, Bovine
Immunogen:	Recombinant full-length human Calbindin, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	5A9
Isotype:	IgG2a
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	~26 kDa
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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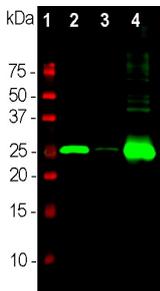
Images:



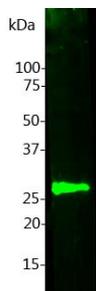
Immunofluorescent analysis of rat brain cerebellum section stained with Anti-Calbindin Antibody (1:2,000 | red) and Anti-GFAP Antibody (A85419 | 1:5,000 | green). The blue is DAPI staining of nuclear DNA. Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with the above antibodies. Anti-Calbindin Antibody prominently labels the dendrites and perikarya of Purkinje cells in the molecular layer of the cerebellum. The Anti-GFAP Antibody stains the processes of Bergmann glia in the molecular layer and astroglia in the granular and white matter layers of cerebellum.



Adult mouse cortex (Left) and cerebellum (Right) sections were stained with Anti-Calbindin Antibody (red) and Anti-Fox3/NeuN Antibody (A85402 | green). Calbindin is expressed in a subset of interneurons in the cortex (Left) and prominently expressed in the dendrites of Purkinje cells in the cerebellum molecular layer (Right). Fox3/NeuN expresses in most neurons; as a result, cells positive for calbindin appear to be yellow. Insets are high magnification images of the boxed area. Blue is DAPI nucleus staining that labels DNA.



Western blot analysis of different neuronal tissue lysates using Anti-Calbindin Antibody (1:5,000): [1] protein standard, [2] rat cerebellum, [3] pig hippocampus, and [4] cow cerebellum. Bands at \sim 25 kDa correspond to calbindin protein, heavily expressed in the cerebellum but a very minor component of hippocampus.



Western blot analysis of Anti-Calbindin Antibody. Blots of cow cerebellum lysate were probed with Anti-Calbindin Antibody. The antibody binds strongly and cleanly to the calbindin band at 28 kDa.