

Calbindin Antibody
Mouse Monoclonal Antibody
Catalog # AN1259

Specification

Calbindin Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	P05937
Reactivity	Human, Mouse, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	30025

Calbindin Antibody - Additional Information

Gene ID	793
Gene Name	CALB1

Target/Specificity

Recombinant full length human calbindin purified from E. coli.

Dilution

WB~~ 1:1000
IHC~~1:100~500
IF~~ 1:1000

Format

Protein G purified culture supernatant

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Calbindin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

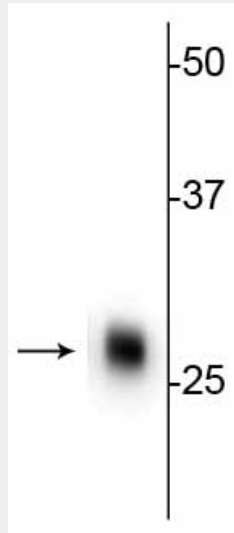
Calbindin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

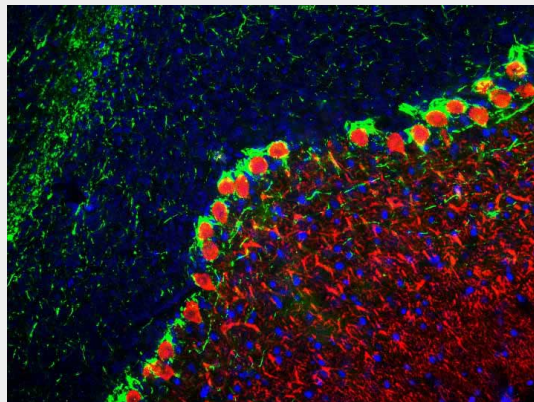
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Calbindin Antibody - Images



Western blot of rat cerebellar lysate showing specific immunolabeling of the ~ 28 kDa calbindin protein.



Immunostaining of rat cerebellum showing specific labeling of calbindin (red) in the dendrites of Purkinje cells. Axons are stained green with anti-neurofilament H antibody

Calbindin Antibody - Background

Calbindin (aka. calbindin D28k) is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. It is predominantly expressed in certain types of neurons, particularly in dendrites and perikarya of the cerebellum and is thought to buffer entry of calcium upon stimulation of glutamate receptors (Andressen et al., 1993). Calbindin has recently been shown to play a critical role in mitochondrial dysfunction and loss of synaptic proteins in vivo in an Alzheimer's disease mouse model (Kook et al., 2014).