

Calbindin (D1I4Q) XP® Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P, IF-F, IF-IC	H M R	Endogenous	28	Rabbit IgG	#P05937	793

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:800
1:200
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier-free (BSA and azide free) version of this product see product #46343

Specificity/Sensitivity

Calbindin (D1I4Q) XP® Rabbit mAb recognizes endogenous levels of total calbindin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of mouse calbindin protein.

Background

Calcium-binding proteins of different subfamilies regulate the second messenger calcium. Calbindin, calmodulin, S-100, parvalbumin, and troponin C are members of the low molecular weight calcium-binding protein family (1). Calbindin is expressed in discrete neuronal populations within the CNS and is thought to act as an intracellular calcium buffering protein. Most Purkinje cells express calbindin, which is expressed when neurons start to migrate and differentiate. In contrast, other calcium buffering proteins, such as parvalbumin, are expressed later during development and in parallel with increasing neuronal activity (2).

Background References

1. Kawasaki, H. et al. (1998) *Biometals* 11, 277-95.
2. Bastianelli, E. (2003) *Cerebellum* 2, 242-62.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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