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#2173

## Calbindin (C26D12) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IHC-P	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P05937	<b>Entrez-Gene Id:</b> 793
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:50  
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.

### Specificity/Sensitivity

Calbindin (C26D12) Rabbit mAb detects endogenous levels of total calbindin protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 200 of human calbindin.

### 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)

### Cross-Reactivity Key

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

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