

Calretinin (E9R6G) Rabbit mAb

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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 29	Source/Isotype: Rabbit IgG	UniProt ID: #P22676	Entrez-Gene Id: 794
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

Calretinin (E9R6G) Rabbit mAb recognizes endogenous levels of total Calretinin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu149 of human Calretinin protein.

Background

Calretinin (29 kDa calbindin, calbindin 2) is a calcium-binding protein of the EF-hand family encoded by the *CALB2* gene. It is differentially expressed from homologous family member calbindin-d28k in distinct neuronal populations of the retina, auditory system, and cerebellar granule cells (1,2), and acts as a marker for specific neuronal subsets of the subthalamic nucleus and the substantia nigra (3). Calretinin has been shown to play an important role in modulating neuronal excitability and the induction of long-term potentiation (1). Research has shown that, pathologically, Calretinin is a selective marker for epithelial mesothelioma, making it a diagnostic tool to differentiate from adenocarcinomas (4).

Background References

1. Camp, A.J. and Wijesinghe, R. (2009) *Int J Biochem Cell Biol* 41, 2118-21.
2. Rogers, J.H. (1987) *J Cell Biol* 105, 1343-53.
3. Fortin, M. and Parent, A. (1996) *Brain Res* 708, 201-4.
4. Gotzos, V. et al. (1996) *Pathol Res Pract* 192, 137-47.

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

Cross-Reactivity Key

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

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