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Gelsolin (D9W8Y) Rabbit mAb**Cell Signaling**
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H M R Mk	Endogenous	83	Rabbit IgG	#P06396	2934

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Immunohistochemistry (Paraffin)

1:600

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 #57376.

Specificity / Sensitivity

Gelsolin (D9W8Y) Rabbit mAb recognizes endogenous levels of total gelsolin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val377 of human gelsolin protein.

Background

Gelsolin (actin-depolymerizing factor, ADF, AGEL, Brevin) is an 83 kDa protein that shares structural and functional homology to villin and adseverin/scinderin (1,2). Gelsolin plays an important role in actin filament assembly by capping and severing actin proteins in a Ca²⁺-dependent manner (3,4). Gelsolin is important for cellular events (e.g., membrane ruffling, chemotaxis, ciliogenesis) that require cytoskeletal remodeling (3). Accordingly, cells from gelsolin knockout mice exhibit motility defects, including a failure to ruffle in response to growth factor stimulation (5,6). In humans, defects in gelsolin have been linked to amyloidosis type 5 (AMYL5), a hereditary disease characterized by cranial neuropathy, which appears to result from gelsolin amyloid deposition (7).

Background References

1. Vitale, M.L. et al. (1991) *J Cell Biol* 113, 1057-67.
2. Lueck, A. et al. (1998) *J Cell Sci* 111 (Pt 24), 3633-43.
3. Sun, H.Q. et al. (1999) *J Biol Chem* 274, 33179-82.
4. Li, G.H. et al. (2010) *Med Res Rev*, 32, 999-1025.
5. Azuma, T. et al. (1998) *EMBO J* 17, 1362-70.
6. Lu, M. et al. (1997) *J Cell Biol* 138, 1279-87.
7. Haltia, M. et al. (1990) *Biochem Biophys Res Commun* 167, 927-32.

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**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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