

#13592 Store at -20°C

Myosin VI (D5Y5A) Rabbit mAb

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H Dg	Endogenous	150	Rabbit IgG	#Q9UM54	4646

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

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

Myosin VI (D5Y5A) Rabbit mAb recognizes endogenous levels of total myosin VI protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg1131 of human myosin VI protein.

Background

The myosin family of motor proteins drive ATP-dependent actin-based motility in eukaryotic cells and contain a conserved amino-terminal motor domain (reviewed in 1,2).

Myosin VI is an unconventional minus-end-directed myosin involved in the transport of vesicles and organelles within the cell, endocytosis, and organelle biogenesis (3-6). The movement of myosin VI and its cargo along actin filaments is unique among myosin family members in its mechanism; its tail domain structure allows it to take larger than predicted steps along the actin filament (reviewed in 1,7).

Myosin VI has been shown to regulate the polarized delivery of proteins to specialized subcellular locations, including the delivery of EGFR to the leading edge of migrating cells (8), as well as the delivery of specialized axonal proteins in neurons (9). Myosin VI has also been shown to mediate activity of the tumor suppressor p53 during DNA damage (10,11).

Background References

1. Sweeney, H.L. and Houdusse, A. (2010) *Cell* 141, 573-82.
2. Nambiar, R. et al. (2010) *Cell Mol Life Sci* 67, 1239-54.
3. Bond, L.M. et al. (2011) *Mol Biol Cell* 22, 54-65.
4. Aschenbrenner, L. et al. (2004) *Mol Biol Cell* 15, 2253-63.
5. Loubéry, S. et al. (2012) *Traffic* 13, 665-80.
6. Ameen, N. and Apodaca, G. (2007) *Traffic* 8, 998-1006.
7. Spudich, J.A. and Sivaramakrishnan, S. (2010) *Nat Rev Mol Cell Biol* 11, 128-37.
8. Chibalina, M.V. et al. (2010) *Traffic* 11, 1290-303.
9. Lewis, T.L. et al. (2011) *PLoS Biol* 9, e1001021.
10. Jung, E.J. et al. (2006) *Mol Cell Biol* 26, 2175-86.
11. Cho, S.J. and Chen, X. (2010) *J Biol Chem* 285, 27159-66.

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**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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