

FRMD6 (D8X3R) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	78	Rabbit IgG	#Q96NE9	122786

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

FRMD6 (D8X3R) Rabbit mAb recognizes endogenous levels of total FRMD6 protein.

Species predicted to react based on 100% sequence homology

Bovine, Dog, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe608 of human FRMD6 protein.

Background

FERM domain-containing protein 6 (FRMD6, Willin) belongs to the 4.1 superfamily, a group of proteins characterized by the presence of a Band 4.1, Ezrin, Radixin, Moesin (FERM) domain in the amino-terminal region (1). Members of this protein superfamily, which also includes Merlin, Ezrin, Radixin, Moesin and Talin, function primarily as adaptor proteins that link plasma membrane-associated proteins to the actin cytoskeleton (2). FRMD6 is considered orthologous to the *Drosophila* Expanded (Ex) protein, which is a 4.1 family protein that functions together with Merlin and Kibra to regulate Hippo signaling, upstream of the Salvador/Warts/Hippo core kinase cassette (3). Research studies suggest a similar role for FRMD6 in regulating the Hippo pathway in mammals. For example, ectopic expression of FRMD6 leads to increased phosphorylation of MST1/2, LATS1, and YAP, which is indicative of Hippo pathway activation. Loss of FRMD6 expression in MCF10A cells induces a phenotype change resembling epithelial-mesenchymal transition (4).

Background References

- Gunn-Moore, F.J. et al. (2005) *FEBS Lett* 579, 5089-94.
- Bretscher, A. et al. (2002) *Nat Rev Mol Cell Biol* 3, 586-99.
- Hamaratoglu, F. et al. (2006) *Nat Cell Biol* 8, 27-36.
- Angus, L. et al. (2012) *Oncogene* 31, 238-50.

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 nonfat dry milk, 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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