

Store at
-20C
#45568**ROBO2 (E4M6D) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-F, IF-IC	H M R	Endogenous	180, 220	Rabbit IgG	#Q9HCK4	6092

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:400
1:1600

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

ROBO2 (E4M6D) Rabbit mAb recognizes endogenous levels of total ROBO2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu1172 of human ROBO2 protein.

Background

ROBO2 is a member of the roundabout (ROBO) receptor family (1). The activation of ROBO2 by SLIT ligand regulates various biological processes, including promoting stem cell senescence via WNT inhibition, destabilizing podocyte actin polymerization and adhesion, and activation of Ena/VASP to facilitate tumor cell extrusion from epithelia (2-5). In development, the SLIT-ROBO pathways play important roles in neuronal axon guidance and synapse function, retinal neurovascular formation, and muscle patterning (6-9). Loss of function mutations of ROBO2 have been associated with urinary tract anomalies and vesicoureteral reflux (10).

Background References

1. Ballard, M.S. and Hinck, L. (2012) *Adv Cancer Res* 114, 187-235.
2. Harburg, G. et al. (2014) *Stem Cell Reports* 3, 385-93.
3. Fan, X. et al. (2016) *JCI Insight* 1, e86934.
4. Fan, X. et al. (2012) *Cell Rep* 2, 52-61.
5. Vaughen, J. and Igaki, T. (2016) *Dev Cell* 39, 683-695.
6. Simpson, J.H. et al. (2000) *Neuron* 28, 753-66.
7. Gore, B.B. et al. (2017) *Elife* 6, .
8. Rama, N. et al. (2015) *Nat Med* 21, 483-91.
9. Ordan, E. and Volk, T. (2015) *Development* 142, 3512-8.
10. Lu, W. et al. (2007) *Am J Hum Genet* 80, 616-32.

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

W: Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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

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