

Store at
-20C
#47600**SLIT2 (E8W7Y) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	200	Rabbit IgG	#O94813	9353

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

SLIT2 (E8W7Y) Rabbit mAb recognizes endogenous levels of total SLIT2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln1463 of human SLIT2 protein.

Background

SLIT2 is an extracellular matrix-associated SLIT family member that functions as a ligand for roundabout (ROBO) family receptors (1). Activation of ROBO receptors by SLIT2 regulates various biological processes, including promoting cellular senescence via WNT inhibition (2), suppressing migration by enhanced β -catenin/E-cadherin association, regulating actin polymerization (4, 5), and suppressing cell proliferation induced by SDF1 and MCP1 (6, 7). In development, the SLIT-ROBO pathways play important roles in neuronal axon guidance, angiogenesis, and both kidney and mammary gland organogenesis. SLIT2 expression has been reported to suppress cancer cell growth, invasion, and metastasis, suggesting that modulation of SLIT2-ROBO signaling may have therapeutic potential in cancer biology (8, 9).

Background References

1. Blockus, H. and Chédotal, A. (2016) *Development* 143, 3037-44.
2. Harburg, G. et al. (2014) *Stem Cell Reports* 3, 385-93.
3. Tseng, R.C. et al. (2010) *Cancer Res* 70, 543-51.
4. Lundström, A. et al. (2004) *Genes Dev* 18, 2161-71.
5. Fan, X. et al. (2003) *Neuron* 40, 113-27.
6. Kanellis, J. et al. (2004) *Am J Pathol* 165, 341-52.
7. Marlow, R. et al. (2008) *Cancer Res* 68, 7819-27.
8. Ballard, M.S. and Hinck, L. (2012) *Adv Cancer Res* 114, 187-235.
9. Gara, R.K. et al. (2015) *Drug Discov Today* 20, 156-64.

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

Cross-Reactivity Key

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

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