

Store at
-20°C

SLIT2 (E8W7Y) Rabbit mAb



#47600

Support: +1-978-867-2388 (U.S.)
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UniProt ID #094813

New 07/18

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W Endogenous	Species Cross-Reactivity* H, M, R	Molecular Wt. 200 kDa	Isotype Rabbit IgG**
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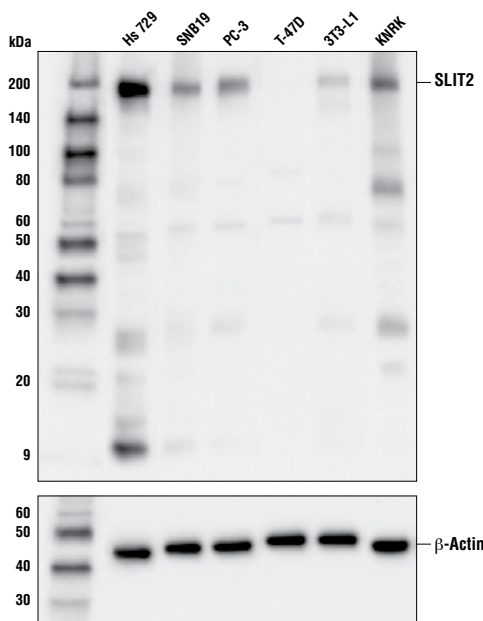
Background: SLIT2 is an extracellular matrix-located SLIT family member (1). The protein functions as a ligand of the roundabout (ROBO) receptors to activate downstream signaling events. Signaling through binding to the ROBO receptors, SLIT2 regulates various biological processes, including promoting senescence by inhibition of WNT signaling (2); suppressing migration via enhancing β -catenin/E-cadherin association; context-dependent inhibition or stimulation of actin polymerization by either promoting CDC42 hydrolysis or activation of rac/pak pathways (4, 5); and suppression of cell proliferation by counteracting the effects of chemoattractant SDF1 and MCP1 (6, 7). The SLIT-ROBO pathways play important roles in neuronal axon guidance, angiogenesis, and kidney/mammary gland organogenesis. During tumor progression, SLIT2 expression often inhibits cancer cell growth, invasion, and metastasis (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.

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.



Western blot analysis of extracts from various cell lines using SLIT2 (E8W7Y) Rabbit mAb (upper) and β -Actin (D6A8) Rabbit mAb #8457 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween[®]20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.