

Rabbit Slingshot-1L Polyclonal Antibody | anti-SSH1 antibody

Slingshot-1L (Ser-978), phospho-specific Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71713	Rabbit	Human, Rat, Mouse, Chicken	Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Slingshot-1L; Polyclonal Antibody; Slingshot-1L (Ser-978); phospho-specific Antibody; phospho-specific; Slingshot Ser; anti-SSH1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse, Chicken
Clonality	Polyclonal
Specificity	This antibody was affinity purified using phospho-SSH1L (Ser-978) peptide (without carrier). The antibody detects a 150kDa* full length recombinant human SSH1L phosphoprotein and this reactivity is eliminated with lambda phosphatase treatment. The antibody also detects SSH1L on immunoblots of rat PC12 and mouse C2C12 cells that were stimulated with calyculin A.
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-SSH1 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Slingshot-1L (Ser-978) antibody was generated from a phospho-peptide that included amino acids surrounding serine 978 in human SSH1L. This sequence has high homology to the conserved site in rat, mouse, chicken, and zebrafish SSH1L. The sequence also has high homology to the conserved site in SSH2L (Ser-1259).
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of Slingshot-1L in rat PC12 cells differentiated with NGF. The cells were labeled with rabbit polyclonal anti-SSH1L (C-term.) and anti-SSH1L (Ser-978) antibodies, then detected using appropriate secondary antibody conjugated to Cy3 (Right panel). Phase image of corresponding PC12 cells (Left panel).



WB (Western Blot)

Western blot of human recombinant SSH1L untreated (lanes 1 & 3) or treated with lambda phosphatase (lanes 2 & 4) and rat PC12 cells unstimulated (lanes 5 & 7) or stimulated with calyculin A (lanes 6 & 8). The blots were probed with anti-SSH1L (C-term.) (lanes 1, 2, 5, & 6) or anti-SSH1L (Ser-978) (lanes 3, 4, 7, & 8).

ADDITIONAL INFORMATION

Related Product Information for anti-SSH1 antibody	Members of the ADF/cofilin (AC) family are actin-severing proteins that regulate actin remodeling during cell motility. Regulation of cofilin activity can occur through serine phosphorylation and dephosphorylation. Activation of cofilin kinases, LIMK1 or LIMK2, leads to phosphorylation of cofilin at serine 3. This phosphorylation disrupts cofilin binding to actin in vitro and in vivo. Multiple phosphatases, Slingshot, PP1, PP2A, PP2B, and chronophin can dephosphorylate Ser-3 and activate actin binding. In mammals, the Slingshot family includes SSH1L, SSH2L, and SSH3L. SSH1L and SSH2L mRNAs are widely expressed, while SSH3L has high expression in epithelial tissues. SSH1L can associate with F-actin and may be the major phosphatase regulating cofilin activity. Disruption of SSH1L expression using RNA interference impairs directional cell migration. Phosphorylation of SSH1L at Ser-937 and Ser-978 by PKD leads to association with 14-3-3, sequestration of the phosphatase to the cytoplasm, and reduces cell migration. Thus, Slingshot phosphatases may be critical for regulating cytoskeletal protein activity and cell motility.
References	Wang, Y. et al. (2015) Cancer Lett. 360(2):171 (ICC:PC cell lines, KLM1, KLM1-R, AsPC-1, BxPC-3, PK45p, PK59) DiPaolo, B.C. et al. (2013) Am Jou of Phys 305(2): L141. (WB: rat alveolar type II) Soosairajah, J. et al. (2005) EMBO J. 24(3):473. Endo, M. et al. (2003) J Neurosci. 23(7):2527. Niwa, R. et al. (2002) Cell 108:233.

NCBI AND UNIPROT INFORMATION

NCBI GI #	239047441
NCBI GeneID	54434
NCBI Accession #	NP_001154802.1
NCBI GenBank Nucleotide #	NM_001161330.1
UniProt Accession #	Q8WYL5; Q6P6C0; Q8N9A7; Q8WYL3; Q8WYL4; Q9P2P8
Molecular Weight	78,978 Da
NCBI Official Full Name	protein phosphatase Slingshot homolog 1 isoform 2
NCBI Official Synonym Full Names	slingshot protein phosphatase 1
NCBI Official Symbol	SSH1
NCBI Official Synonym Symbols	SSH1L
NCBI Protein Information	protein phosphatase Slingshot homolog 1
UniProt Protein Name	Protein phosphatase Slingshot homolog 1
UniProt Gene Name	SSH1
UniProt Synonym Gene Names	KIAA1298; SSH1L; SSH-1L; hSSH-1L

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/slinsshot-1l-antibody-immunocytochemistry-western-blot-elisa/71713>