

Product datasheet for **TA389208**

SSH1 Rabbit Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC, IHC, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:250
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Isotype:	IgG
Immunogen:	A synthetic peptide (coupled to KLH) corresponding to amino acid residues in the C-terminal region of human SSH1L. This sequence has 100% homology with similar regions of mouse and bovine SSH1L, and has low homology to SSH2L and SSH3L.
Specificity:	The antibody detects a 150 kDa* protein corresponding to the molecular mass of SSH1L on SDS-PAGE immunoblots of PC12 cells.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Antigen Affinity Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	150
Database Link:	Q8WYL5



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Background:

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. Thus, Slingshot phosphatases may be critical for regulating cytoskeletal protein activity and cell motility.

Note:

Antigen affinity purified rabbit serum.