

## SSH3 (Phospho Ser37) rabbit pAb

<b>Catalog No :</b>	YP1511
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB
<b>Target :</b>	SSH3
<b>Fields :</b>	>>Axon guidance;>>Regulation of actin cytoskeleton
<b>Gene Name :</b>	SSH3 SSH3L
<b>Protein Name :</b>	SSH3 (Ser37)
<b>Human Gene Id :</b>	54961
<b>Human Swiss Prot No :</b>	Q8TE77
<b>Mouse Gene Id :</b>	245857
<b>Mouse Swiss Prot No :</b>	Q8K330
<b>Rat Gene Id :</b>	365396
<b>Rat Swiss Prot No :</b>	Q5XIS1
<b>Immunogen :</b>	Synthesized phosho peptide around human SSH3 (Ser37)
<b>Specificity :</b>	This antibody detects endogenous levels of Human SSH3 (phospho-Ser37)
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:1000-2000
<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography

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using specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year (Do not lower than -25°C)

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**Observed Band :** 74kD

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**Cell Pathway :** Regulates Actin and Cytoskeleton;

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**Background :** The ADF (actin-depolymerizing factor)/cofilin family (see MIM 601442) is composed of stimulus-responsive mediators of actin dynamics. ADF/cofilin proteins are inactivated by kinases such as LIM domain kinase-1 (LIMK1; MIM 601329). The SSH family appears to play a role in actin dynamics by reactivating ADF/cofilin proteins in vivo (Niwa et al., 2002 [PubMed 11832213]). [supplied by OMIM, Mar 2008],

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**Function :** catalytic activity: A phosphoprotein + H<sub>2</sub>O = a protein + phosphate., catalytic activity: Protein tyrosine phosphate + H<sub>2</sub>O = protein tyrosine + phosphate., function: Protein phosphatase which may play a role in the regulation of actin filament dynamics. Can dephosphorylate and activate the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly., miscellaneous: Tyrosine phosphatase activity has not been demonstrated for this protein to date., PTM: Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the protein-tyrosine phosphatase family., similarity: Contains 1 tyrosine-protein phosphatase domain., subunit: Does not bind to, or colocalize with, filamentous actin.,

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**Subcellular Location :** Cytoplasm, cytoskeleton . Nucleus .

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**Expression :** Cerebellum, Epithelium, Ovarian carcinoma, Uterus,

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