

SSH3 polyclonal antibody

Catalog: BS61653

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Slingshot homolog 3 (SSH3) is a protein phosphatase that modifies actin cytoskeleton dynamics via cofilin dephosphorylation. Cofilin is an evolutionarily conserved, actin-binding protein that severs actin filaments during processes that rely on actin filament dynamics, including cytokinesis, cell migration, invasion, and neuronal development. Actin severing and filament depolymerization are regulated through the controlled cycling of cofilin between the phosphorylated and dephosphorylated forms. The kinases LIMK and TESK inactivate cofilin by phosphorylating it at Ser3. The slingshot homologs (SSH1, SSH2, and, to a lesser extent, SSH3) and chronophin/PDXP phosphatases remove phosphate from cofilin at Ser3, enabling cofilin binding to actin and filament depolymerization. SSH3 is widely expressed in epithelial tissues, and has been found to be non-essential for viability and fertility in knockout mice. While its biological function remains elusive, phosphorylation at Ser37 of SSH3 has been identified in several phosphoproteomic studies.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 90 kDa

Swiss-Prot:

Q8TE77

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

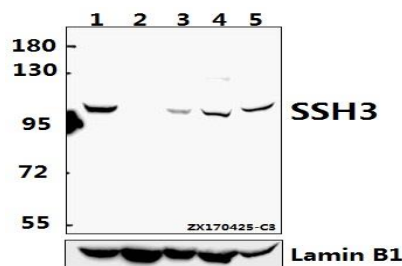
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

SSH3 polyclonal antibody detects endogenous levels of SSH3 protein.

DATA:



Western blot (WB) analysis of SSH3 polyclonal antibody at 1:500 dilution

Lane1:HepG2 whole cell lysate(40ug)

Lane2:A549 whole cell lysate(40ug)

Lane3:MCF-7 whole cell lysate(40ug)

Lane4:PC12 whole cell lysate(40ug)

Lane5:AML-12 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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