

Datasheet for ABIN6991133
anti-SHoc2/Sur8 antibody (N-Term)



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Overview

Quantity:	0.1 mg
Target:	SHoc2/Sur8 (SHOC2)
Binding Specificity:	AA 30-80, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHoc2/Sur8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	SHOC2 antibody was raised against a 21 amino acid synthetic peptide near the amino terminus of human SHOC2. The immunogen is located within amino acids 30 - 80 of SHOC2.
Isotype:	IgG
Purification:	SHOC2 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	SHoc2/Sur8 (SHOC2)
Alternative Name:	SHOC2 (SHOC2 Products)
Background:	SHOC2 Antibody: SHOC2 protein participates in protein binding / transferase activity in the fibroblast growth factor receptor signaling pathway and Ras protein signal transduction. It is a widely expressed protein composed almost entirely of leucine-rich repeats (LRR), with a lysine-

Target Details

rich sequence at the amino terminus and cytoplasmically localized. SHOC2 acts as a positive modulator of the RAS-MAPK signaling cascade, which is elicited by EGL-15 and LET-23 and mediated by LET-60. SHOC2 together with protein phosphatase 1c (PP1c) forms a highly specific M-Ras effector complex and is essential for activation of the MAPK pathway by growth factors. Furthermore, in tumor cells with Ras gene mutations, inhibition of SHOC2 expression inhibits MAPK, but not PI3K activity. The SHOC2-PP1c holoenzyme provides an attractive therapeutic target for inhibition of the MAPK pathway in cancer. Recent studies show that aberrantly acquired N-myristoylation of SHOC2 causes human disease Noonan-like syndrome with loose anagen hair.

Gene ID: 8036

NCBI Accession: [NP_031399](#)

UniProt: [Q9UQ13](#)

Application Details

Application Notes: SHOC2 antibody can be used for detection of Shoc2 by Western blot at 1-2 $\mu\text{g}/\text{mL}$. Antibody can also be used for immunohistochemistry starting at 5 $\mu\text{g}/\text{mL}$.

Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: SHOC2 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: $-20\text{ }^{\circ}\text{C}$, $4\text{ }^{\circ}\text{C}$

Storage Comment: SHOC2 antibody can be stored at $4\text{ }^{\circ}\text{C}$ for three months and $-20\text{ }^{\circ}\text{C}$, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should

not be exposed to prolonged high temperatures.