
SHOC2 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254086

Unit: 0.1 mg

Description:

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-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.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: SHOC2; Leucine-rich repeat protein SHOC-2; Ras-binding protein Sur-8; SOC2

Accession No.: NP_031399

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human SHOC2.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.