# SHOC2 Antibody

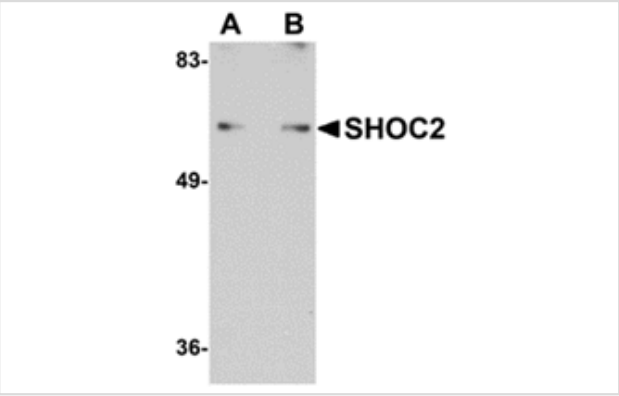
Catalog No: #24910

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

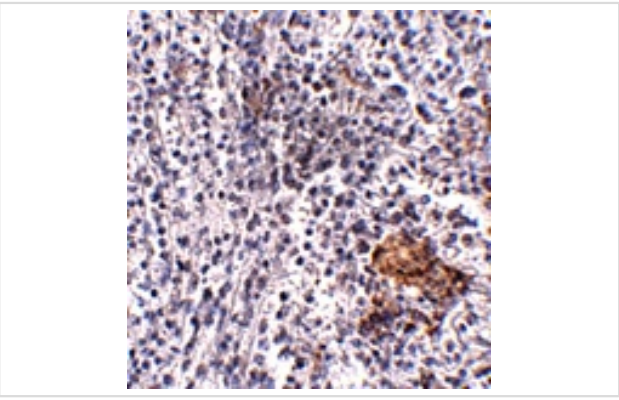
## Description

| | |
|---|---|
| Product Name | SHOC2 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Affinity chromatography purified via peptide column |
| Applications | ELISA WB IHC |
| Species Reactivity | Hu Ms Rt |
| Immunogen Type | Peptide |
| Immunogen Description | Raised against  a 21 amino acid peptide near the amino terminus of human SHOC2. |
| Target Name | SHOC2 |
| Other Names | Leucine-rich repeat protein SHOC-2, Ras-binding protein Sur-8, SOC2 |
| Accession No. | Swiss-Prot:Q9UQ13Gene ID:8036 |
| Uniprot | Q9UQ13 |
| GeneID | 8036; |
| Concentration | 1mg/ml |
| Formulation | Supplied in PBS containing 0.02% sodium azide. |
| Storage | Can be stored at -20°C, stable for 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. |

## Images




Western blot analysis of SHOC2 in Jurkat cell lysate with SHOC2 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of SHOC2 in human spleen tissue with SHOC2 antibody at 5 ug/mL.

## Background

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.

Note: This product is for in vitro research use only