

SHOC2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17667a**Specification**

SHOC2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9UQ13
Other Accession	O88520 , A6QLV3 , NP_031399.2
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	64888
Antigen Region	56-83

SHOC2 Antibody (N-term) - Additional Information**Gene ID** 8036**Other Names**

Leucine-rich repeat protein SHOC-2, Protein soc-2 homolog, Protein sur-8 homolog, SHOC2, KIAA0862

Target/Specificity

This SHOC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 56-83 amino acids from the N-terminal region of human SHOC2.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SHOC2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SHOC2 Antibody (N-term) - Protein Information**Name** SHOC2

Synonyms KIAA0862

Function Core component of the SHOC2-MRAS-PP1c (SMP) holophosphatase complex that regulates activation of the MAPK pathway (PubMed:[10783161](#), PubMed:[16630891](#), PubMed:[25137548](#), PubMed:[35768504](#), PubMed:[35830882](#), PubMed:[35831509](#), PubMed:[36175670](#)). Acts as a scaffolding protein in the SMP complex (PubMed:[35768504](#), PubMed:[35830882](#), PubMed:[35831509](#), PubMed:[36175670](#)). The SMP complex specifically dephosphorylates the inhibitory phosphorylation at 'Ser-259' of RAF1 kinase, 'Ser-365' of BRAF kinase and 'Ser-214' of ARAF kinase, stimulating their kinase activities (PubMed:[10783161](#), PubMed:[16630891](#), PubMed:[35768504](#), PubMed:[35830882](#), PubMed:[35831509](#), PubMed:[36175670](#)). The SMP complex enhances the dephosphorylation activity and substrate specificity of PP1c (PubMed:[35768504](#), PubMed:[36175670](#)).

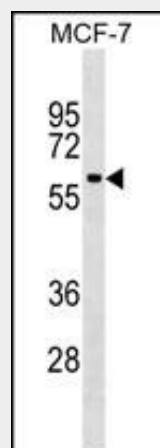
Cellular Location

Cytoplasm. Nucleus. Note=Translocates from cytoplasm to nucleus upon growth factor stimulation.

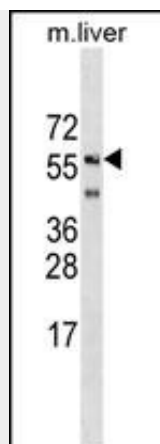
SHOC2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SHOC2 Antibody (N-term) - Images

SHOC2 Antibody (N-term) (Cat. #AP17667a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the SHOC2 antibody detected the SHOC2 protein (arrow).



SHOC2 Antibody (N-term) (Cat. #AP17667a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the SHOC2 antibody detected the SHOC2 protein (arrow).

SHOC2 Antibody (N-term) - Background

This gene encodes a protein that consists almost entirely of leucine-rich repeats, a domain implicated in protein-protein interactions. The protein may function as a scaffold linking RAS to downstream signal transducers in the RAS/ERK MAP kinase signaling cascade. Mutations in this gene have been associated with Noonan-like syndrome with loose anagen hair.

SHOC2 Antibody (N-term) - References

Matsunaga-Udagawa, R., et al. J. Biol. Chem. 285(10):7818-7826(2010)
Yoshiki, S., et al. Mol. Biol. Cell 21(6):1088-1096(2010)
Flotho, C., et al. Blood 115 (4), 913 (2010) :
Cordeddu, V., et al. Nat. Genet. 41(9):1022-1026(2009)
Rodriguez-Viciano, P., et al. Mol. Cell 22(2):217-230(2006)