

Product Name: KD-Validated RHOC Mouse Monoclonal Antibody**Catalog #: KVA00035**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 22.0kDa

Antigen Information

Gene Name	RHOC
Alternative Names	RHOC; Ras Homolog Family Member C; ARH9; ARHC; Rho-Related GTP-Binding Protein
	RhoC; Ras Homolog Gene Family, Member C; Rho CDNA Clone 9; H9; Epididymis Secretory Sperm Binding Protein; Small GTP Binding Protein RhoC; RAS-Related Homolog 9; Oncogene RHO H9; RhoC GTPase; RHOH9
Gene ID	389.0
SwissProt ID	P08134
Immunogen	A synthesized peptide derived from human RHOC

Background

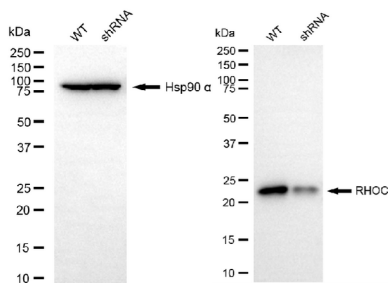
This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-

bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

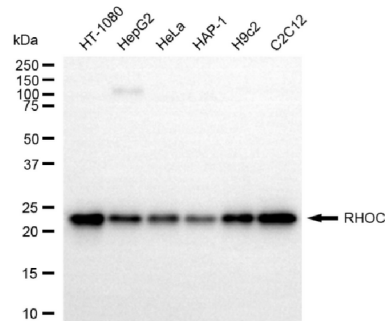
Research Area

Cancer

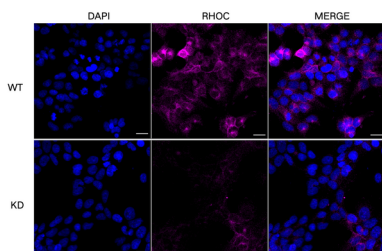
Image Data



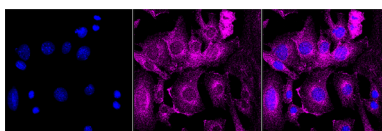
Western blotting analysis using RHOC antibody (KVA00035). RHOC expression in wild-type (WT) and RHOC shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with RHOC antibody (KVA00035, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



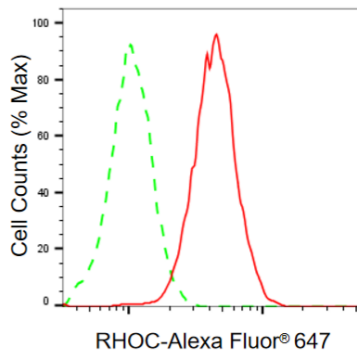
Western blotting analysis using RHOC antibody (KVA00035). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RHOC antibody (KVA00035, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells using RHOC antibody (KVA00035, 1:1,000). Top panel: wild-type (WT); Bottom panel: RHOC shRNA knockdown (KD). Nuclei were stained blue with DAPI; RHOC was stained magenta with Alexa Fluor® 647. Scale bar: 20 µm.



Immunocytochemical staining of C2C12 cells with RHOC antibody (KVA00035, 1:1,000). Nuclei were stained blue with DAPI; RHOC was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of RHOC expression in C2C12 cells using RHOC antibody (KVA00035, 1:2,000). Green, isotype control; red, RHOC.