

RASSF5 Rabbit pAb

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Catalog # AP52303

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WWW0
Predicted	Rat, Pig, Dog, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47090
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RASSF5
Epitope Specificity	321-418/418
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cytoplasm > cytoskeleton. Isoform 2 is mainly located in the perinuclear region of unstimulated primary T cells. Upon stimulation translocates to the leading edge and colocalizes with ITGAL/LFA-1 in the peripheral zone of the immunological synapse. Isoform 2 is localized to growing microtubules in vascular endothelial cells and is dissociated from microtubules by activated RAP1A.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the Ras association domain family. It functions as a tumor suppressor, and is inactivated in a variety of cancers. The encoded protein localizes to centrosomes and microtubules, and associates with the GTP-activated forms of Ras, Rap1, and several other Ras-like small GTPases. The protein regulates lymphocyte adhesion and suppresses cell growth in response to activated Rap1 or Ras. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	83593
Other Names	Ras association domain-containing protein 5, New ras effector 1, Regulator for cell adhesion and polarization enriched in lymphoid tissues, RAPL, RASSF5, NORE1, RAPL
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RASSF5
Synonyms	NORE1, RAPL
Function	Potential tumor suppressor. Seems to be involved in lymphocyte adhesion by linking RAP1A activation upon T-cell receptor or chemokine stimulation to integrin activation. Isoform 2 stimulates lymphocyte polarization and the patch-like distribution of ITGAL/LFA-1, resulting in an enhanced adhesion to ICAM1. Together with RAP1A may participate in regulation of microtubule growth. The association of isoform 2 with activated RAP1A is required for directional movement of endothelial cells during wound healing. May be involved in regulation of Ras apoptotic function. The RASSF5-STK4/MST1 complex may mediate HRAS and KRAS induced apoptosis.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Note=Isoform 2 is mainly located in the perinuclear region of unstimulated primary T-cells. Upon stimulation translocates to the leading edge and colocalizes with ITGAL/LFA-1 in the peripheral zone of the immunological synapse. Isoform 2 is localized to growing microtubules in vascular endothelial cells and is dissociated from microtubules by activated RAP1A
Tissue Location	Widely expressed. Frequently down-regulated in lung tumor cell lines and primary lung tumors.

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References

Tommasi S.,et al.Oncogene 21:2713-2720(2002).
Katagiri K.,et al.Nat. Immunol. 4:741-748(2003).
Burbee D.G.,et al.Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

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