

Rabbit RAP1A Polyclonal Antibody | anti-RAP1A antibody

RAP1A Antibody

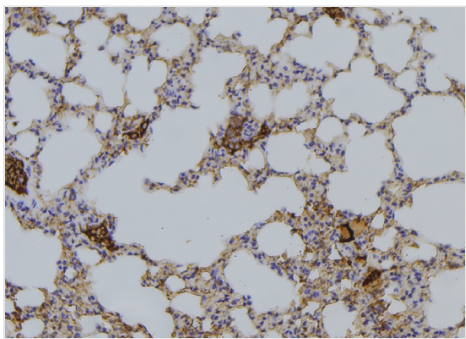
CATALOG # AAA325939	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

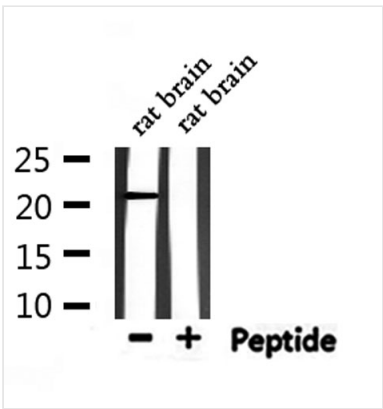
RAP1A; Polyclonal Antibody; RAP1A Antibody; C21KG; G 22K; G-22K; GTP binding protein smg p21A; GTP-binding protein smg p21A; KREV 1; KREV1; OTTHUMP00000013741; RAP 1A; RAP1; RAP1A member of RAS oncogene family; RAP1A_HUMAN; Ras related protein Krev 1; Ras related protein Rap 1A; RAS related protein RAP1A; Ras-related protein Krev-1; Ras-related protein Rap-1A; SMGP21; anti-RAP1A antibody

PRODUCT SPECIFICATIONS

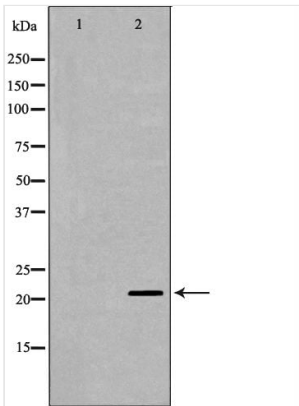
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RAP1A antibody detects endogenous levels of total RAP1A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	184
Applicable Applications for anti-RAP1A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAP1A
Subcellular Location	Cell Membrane
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Bovine (100%), Horse (82%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA325939 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from rat brain, using RAP1A Antibody.



WB (Western Blot)
Western blot analysis of C6 using RAP1A antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAP1A antibody

Description: Rap1 and Rap2 belong to the Ras subfamily of small GTPases and are activated by a wide variety of stimuli through integrins, receptor tyrosine kinases (RTKs), G-protein coupled receptors (GPCR), death domain associated receptors (DD-R) and ion channels (1, 2). Like other small GTPases, Rap activity is stimulated by guanine nucleotide exchange factors (GEF) and inactivated by GTPase activating proteins (GAP). A wide variety of Rap GEFs have been identified: C3G connects Rap1 with RTKs through adaptor proteins such as Crk, Epacs (or cAMP-GEFs) transmit signals from cAMP, and CD-GEFs (or CalDAG-GEFs) convey signals from either or both Ca²⁺ and DAG (1). Rap1 primarily regulates multiple integrin-dependent processes such as morphogenesis, cell-cell adhesion, hematopoiesis, leukocyte migration and tumor invasion (1, 2). Rap1 may also regulate proliferation, differentiation and survival through downstream effectors including B-Raf, PI3K, RalGEF and phospholipases (PLCs) (1-4). Rap1 and Rap2 are not functionally redundant as they perform overlapping but distinct functions (5). Recent research indicates that Rap2 regulates Dsh subcellular localization and is required for Wnt signaling in early development (6).

Function: Induces morphological reversion of a cell line transformed by a Ras oncogene. Counteracts the mitogenic function of Ras, at least partly because it can interact with Ras GAPs and RAF in a competitive manner. Together with ITGB1BP1, regulates KRIT1 localization to microtubules and membranes. Plays a role in nerve growth factor (NGF)-induced neurite outgrowth. Plays a role in the regulation of embryonic blood vessel formation. Involved in the establishment of basal endothelial barrier function. May be involved in the regulation of the vascular endothelial growth factor receptor KDR expression at endothelial cell-cell junctions.

Subunit Structure: Found in a complex, at least composed of ITGB1BP1, KRIT1 and RAP1A. Interacts (active GTP-bound form preferentially) with KRIT1 (via C-terminus FERM domain); the interaction does not induce the opening conformation of KRIT1. In its GTP-bound form interacts with PLCE1 and RADIL. Interacts with SGSM1, SGSM2 and SGSM3. Interacts (via GTP-bound active form) with RAPGEF2 (via Ras-associating domain).

Similarity: Belongs to the small GTPase superfamily. Ras family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	58331202
NCBI GeneID	5906
NCBI Accession #	NP_001010935.1
NCBI GenBank Nucleotide #	NM_001010935.2
UniProt Accession #	P62834; P10113
Molecular Weight	Observed: 21 kDa Predicted: 21 kDa
NCBI Official Full Name	ras-related protein Rap-1A
NCBI Official Synonym Full Names	RAP1A, member of RAS oncogene family
NCBI Official Symbol	RAP1A
NCBI Official Synonym Symbols	RAP1; C21KG; G-22K; KREV1; KREV-1; SMGP21
NCBI Protein Information	ras-related protein Rap-1A
UniProt Protein Name	Ras-related protein Rap-1A
UniProt Gene Name	RAP1A
UniProt Synonym Gene Names	KREV1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rap1a-antibody-immunohistochemistry-western-blot-elisa/325939>