

Rabbit RAB5A Polyclonal Antibody | anti-RAB5A antibody

RAB5A Antibody

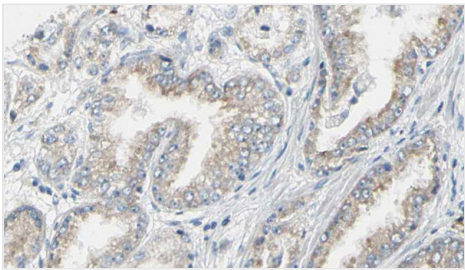
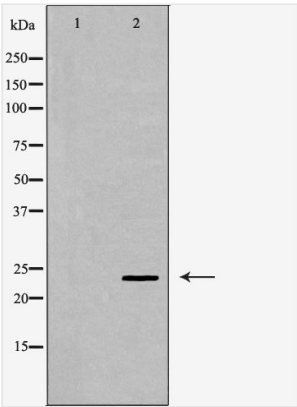
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326093	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RAB5A; Polyclonal Antibody; RAB5A Antibody; RAB 5; RAB 5A; RAB5A member RAS oncogene family; RAB5A_HUMAN; RAS associated protein RAB5A; Ras related protein Rab 5A; Ras-related protein Rab-5A; anti-RAB5A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RAB5A antibody detects endogenous levels of total RAB5A
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	201
Applicable Applications for anti-RAB5A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAB5A
Subcellular Location	Cell Membrane. Early Endosome Membrane. Melanosome. Enriched in stage I melanosomes.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326093 at 1/100 staining Human prostate 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 Jurkat whole cell lysates, using RAB5A Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAB5A antibody

Description: Rab5 is a member of the Ras superfamily of small Rab GTPases. Rab5 is localized at the plasma membrane and early endosomes and functions as a key regulator of vesicular trafficking during early endocytosis (1). The conformational change between Rab5 GTP/GDP states is essential for its biological function as a rate limiting regulator at multiple steps during endocytosis (1, 2). Rab5 exerts its function by interacting with several Rab5-specific effectors (1-3). These proteins form complexes with Rab5 on a specialized Rab domain of the endosome and promote recycling of Rab5-cargo targets between endosome and the plasma membrane.

Function: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity).

Subunit Structure: Interacts with SGSM1 and SGSM3 (By similarity). Interacts with PIK3CB (By similarity). Interacts with GDI1; this promotes dissociation from membranes (PubMed:23815289). Interacts with EEA1 (PubMed:10491193, PubMed:20534488). Interacts with RIN1 and GAPVD1, which regulate its pathway, probably by acting as a GEF (PubMed:11703925, PubMed:16410077). Interacts with RINL. Interacts with ALS2CL, SUN2, ZFYVE20 and RUFY1 (PubMed:10818110, PubMed:11062261, PubMed:15388334, PubMed:14617813, PubMed:16034420). Interacts with RABEP1; one RABEP1 homodimer binds two RAB5A chains, but at opposite sides of the dimer (PubMed:15378032). Interacts with OCRL (PubMed:25869668). Interacts with INPP5F. May be a component of a complex composed of RAB5A, DYN2 and PIK3C3 (By similarity). Does not interact with BLOC-3 complex (heterodimer of HPS1 and HPS4) (By similarity). Interacts with CLN5 (PubMed:22431521).

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	635574573
NCBI GeneID	5868
NCBI Accession #	NP_001278977.1
NCBI GenBank Nucleotide #	NM_001292048.1
UniProt Accession #	P20339; Q6FI44; B4DJA5
Molecular Weight	Observed: 24 kDa Predicted: 24 kDa
NCBI Official Full Name	ras-related protein Rab-5A isoform 2

NCBI Official Synonym Full Names	RAB5A, member RAS oncogene family
NCBI Official Symbol	RAB5A
NCBI Official Synonym Symbols	RAB5
NCBI Protein Information	ras-related protein Rab-5A
UniProt Protein Name	Ras-related protein Rab-5A
UniProt Gene Name	RAB5A
UniProt Synonym Gene Names	RAB5

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/rab5a-antibody-immunohistochemistry-western-blot-elisa/326093>