

Rab5 Polyclonal Antibody | anti-Rab5 antibody

Anti-Rab5 Antibody

CATALOG # AAA46226	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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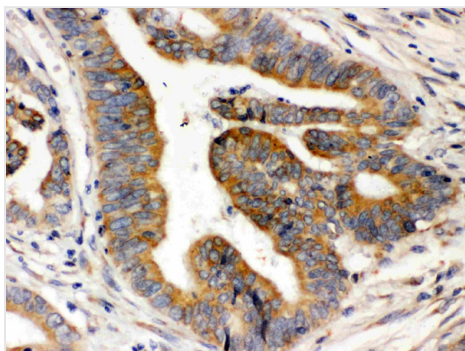
PRODUCT SYNONYMS

Rab5; Polyclonal Antibody; Anti-Rab5 Antibody; Ras-related protein Rab-5A; RAB 5; RAB 5A; RAB5A; RAB5A member RAS oncogene family; RAB5A_HUMAN; RAS associated protein RAB5A; Ras related protein Rab 5A; Ras-related protein Rab-5A antibody; member RAS oncogene family; anti-Rab5 antibody

PRODUCT SPECIFICATIONS

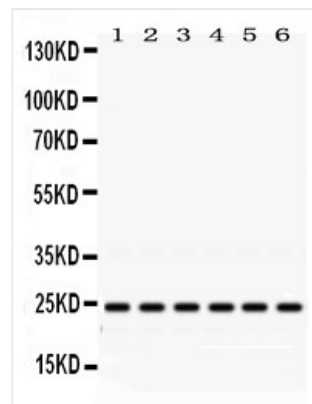
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	201
Applicable Applications for anti-Rab5 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Rab5 (179-215aa KKLPKNEPQNPNGANSARGRGVDLTEPTQPTRNQCCSN), different from the related mouse and rat sequences by three amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Anti-Rab5 Picoband antibody, AAA46226, IHC(P) IHC(P): Human Intestinal Cancer Tissue



WB (Western Blot)

Anti-Rab5 Picoband antibody, AAA46226, Western blotting All lanes: Anti Rab5 (AAA46226) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: HELA Whole Cell Lysate at 40ug Lane 4: SW620 Whole Cell Lysate at 40ug Lane 5: 293T Whole Cell Lysate at 40ug Lane 6: JURKAT Whole Cell Lysate at 40ug Predicted bind size: 24KD Observed bind size: 24KD

ADDITIONAL INFORMATION

Related Product Information for anti-Rab5 antibody	Description: Rabbit IgG polyclonal antibody for Ras-related protein Rab-5A(RAB5A) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: RAB5A (Ras-associated protein RAB5A), also called RAB5, is a protein that in humans is encoded by the RAB5A gene. RAB5 is a rate-limiting component of the machinery regulating the kinetics of membrane traffic in the early endocytic pathway. The RAB5A gene is mapped on 3p24.3. RAB5 is indispensable for a form of receptor tyrosine kinase-induced actin remodeling called circular ruffling. It signals to the actin cytoskeleton through RNTRE, a RAB5-specific GTPase-activating protein (GAP). RAB5 activity on phagosome membranes began to increase on disassembly of the actin coat encapsulating phagosomes. In addition, RAB5 activation is either continuous or repetitive for up to 10 minutes, but it ends before the collapse of engulfed apoptotic cells. Expression of a dominant-negative mutant of RAB5 delayed this collapse of apoptotic thymocytes, showing a role for RAB5 in phagosome maturation.
References	1. Bucci, C., Parton, R. G., Mather, I. H., Stunnenberg, H., Simons, K., Hoflack, B., Zerial, M. The small GTPase rab5 functions as a regulatory factor in the early endocytic pathway. Cell 70: 715-728, 1992. 2. Kitano, M., Nakaya, M., Nakamura, T., Nagata, S., Matsuda, M. Imaging of Rab5 activity identifies essential regulators for phagosome maturation. Nature 453: 241-245, 2008. 3. Lanzetti, L., Rybin, V., Malabarba, M. G., Christoforidis, S., Scita, G., Zerial, M., Di Fiore, P. P. The Eps8 protein coordinates EGF receptor signalling through Rac and trafficking through Rab5. Nature 408: 374-377, 2000.

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	22,178 Da
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
UniProt Entry Name	RAB5A_HUMAN

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.