

Rabbit Rab4 Polyclonal Antibody | anti-RAB4A antibody

Rab4 Antibody

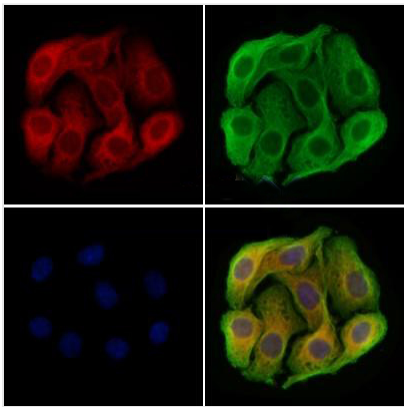
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31192	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

Rab4; Polyclonal Antibody; Rab4 Antibody; HRES 1 / RAB4; Oncogene RAB4; Rab 4; RAB 4A; RAB4 member RAS oncogene family; Rab4a; RAB4A member RAS oncogene family; RAB4A_HUMAN; Ras related protein Rab 4A; Ras related protein Rab4A; Ras-related protein Rab-4A; anti-RAB4A antibody

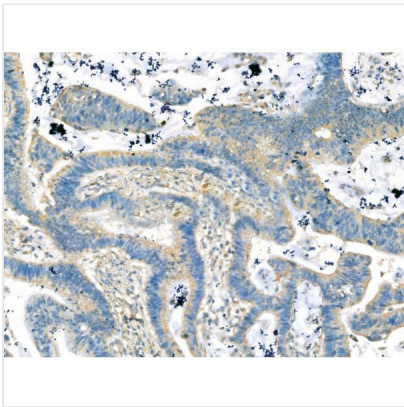
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Rab4 Antibody detects endogenous levels of total Rab4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	113
Applicable Applications for anti-RAB4A antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Rab4, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



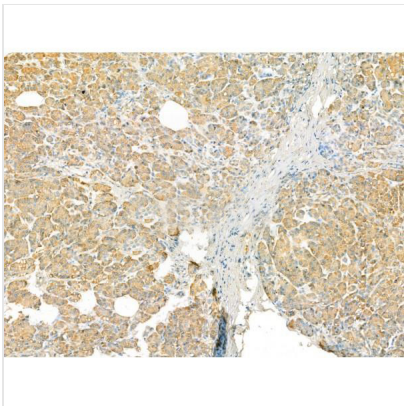
IF (Immunofluorescence)

AAA31192 staining Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31192 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



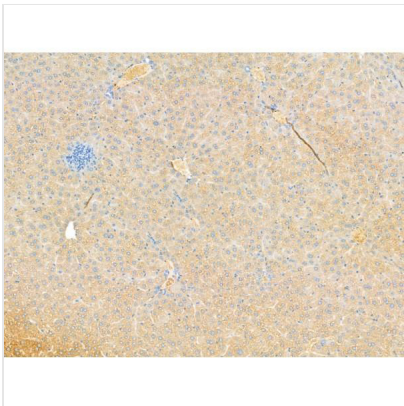
IHC (Immunohistochemistry-Paraffin)

AAA31192 at 1/100 staining Human colorectal cancer 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



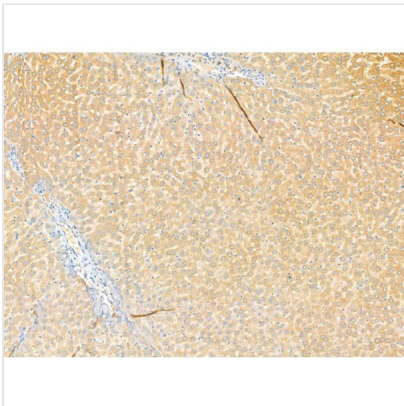
IHC (Immunohistochemistry-Paraffin)

AAA31192 at 1/100 staining Human pancreatic cancer and adjacent normal tissues 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



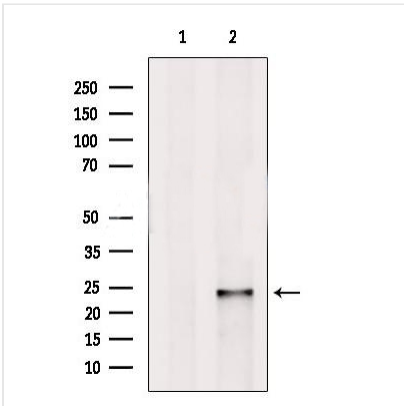
IHC (Immunohistochemistry-Paraffin)

AAA31192 at 1/100 staining Mouse liver 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31192 at 1/100 staining Rat liver 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from A2780 cells, using Rab4 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAB4A antibody	Function: Protein transport. Plays a role in vesicular traffic. Mediates VEGFR2 endosomal trafficking to enhance VEGFR2 signaling. Post Translational Modifications: Phosphorylated by CDK1 kinase during mitosis. Subcellular Location: Membrane>Peripheral membrane protein. Cytoplasm. Early endosome membrane>Peripheral membrane protein. Recycling endosome membrane>Peripheral membrane protein. Note: Generally associated with membranes. Cytoplasmic when phosphorylated by CDK1. Subunit Structure: Interacts with SGSM1, SGSM2 and SGSM3 (By similarity). Interacts with RAB11FIP1, RABEP1, ZFYVE20 and RUFY1 (PubMed:10698684, PubMed:11786538, PubMed:11788822, PubMed:14617813, PubMed:15280022, PubMed:16034420). Interacts (membrane-bound form) with NDRG1; the interaction involves NDRG1 in vesicular recycling of E-cadherin (PubMed:17786215). Interacts (in GTP-bound form) with GRIPAP1 (via N-terminus) (PubMed:20098723). Interacts with RABEP1 and RBSN (PubMed:20098723). Does not interact with HPS4 (By similarity). Interacts with RABEP2; this interaction may mediate VEGFR2 cell surface expression (PubMed:29425100). Similarity: Belongs to the small GTPase superfamily. Rab family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	433660831
NCBI GeneID	5867
NCBI Accession #	NP_001258927.1
NCBI GenBank Nucleotide #	NP_001258927.1
UniProt Accession #	P20338
Molecular Weight	Observed Molecular Weight: (Observed)24kD. Predicted Molecular Weight: (Calculated)24kDa.
NCBI Official Full Name	ras-related protein Rab-4A isoform 2
NCBI Official Synonym Full Names	RAB4A, member RAS oncogene family
NCBI Official Symbol	RAB4A
NCBI Official Synonym Symbols	RAB4; HRES1; HRES-1; HRES-1/RAB4
NCBI Protein Information	ras-related protein Rab-4A
UniProt Protein Name	Ras-related protein Rab-4A
UniProt Gene Name	RAB4A
UniProt Synonym Gene Names	RAB4
UniProt Entry Name	RAB4A_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.