

Rabbit Gab2 Polyclonal Antibody | anti-Gab2 antibody

Phospho-Gab2 (Ser159) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329496	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Gab2; Polyclonal Antibody; Phospho-Gab2 (Ser159) Antibody; GAB 2; GAB2_HUMAN; Grb 2 associated binder 2; GRB 2 associated binding protein 2; Grb2 associated binder 2; GRB2 associated binder 2 pp100; GRB2 associated binding protein 2; GRB2-associated binder 2; GRB2-associated-binding protein 2; Growth factor receptor bound protein 2 associated protein 2; Growth factor receptor bound protein 2-associated protein 2; KIAA0571; p97; pHdomain containing adaptor molecule p97; pp100; anti-Gab2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Gab2 (Ser159) Antibody detects endogenous levels of Gab2 only when phosphorylated at Ser159.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
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)
Applicable Applications for anti-Gab2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Gab2 around the phosphorylation site of Ser159.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated on tyrosine residue (s) by the thrombopoietin receptor (TPOR), stem cell factor receptor (SCFR), and T-cell and B-cell antigen receptors, gp130, IL-2R and IL-3R (By similarity). Phosphorylated upon stimulation of TNFRSF11A/RANK by TNFSF11/RANKL (By similarity). Phosphorylated upon EGF stimulation. Phosphorylated on tyrosine residues by HCK upon IL6 signaling. Dephosphorylated by PTPN11.
Subunit Structure	Interacts with SHC1; may mediate interaction with receptors (By similarity). Interacts with SYK (By similarity). Interacts with PI-3 kinase. Interacts with GRB2 (via SH3 2 domain). Interacts (phosphorylated) with PTPN11. Interacts with TNFRSF11A (via cytoplasmic domain). Interacts (phosphorylated) with 14-3-3 family proteins SFN, YWHAB, YWHAE, YWHAG, YWHAH, YWHAQ and YWHAZ; prevents interaction with GRB2 and attenuates GAB2 signaling. Interacts with HCK.
Similarity	The SH3-binding motifs mediate interaction with SHC1 and GRB2. The pHdomain mediates phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 3,4-bisphosphate binding. Belongs to the GAB family.
Subcellular Location	Cytoplasm. Cell membrane.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Human pancreatic 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse spleen 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from H-4-II-E, using Phospho-Gab2 (Ser159) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Gab2 antibody	Adapter protein which acts downstream of several membrane receptors including cytokine, antigen, hormone, cell matrix and growth factor receptors to regulate multiple signaling pathways. Regulates osteoclast differentiation mediating the TNFRSF11A/RANK signaling. In allergic response, it plays a role in mast cells activation and degranulation through PI-3-kinase regulation. Also involved in the regulation of cell proliferation and hematopoiesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6912460
NCBI GeneID	9846
NCBI Accession #	NP_036428.1
NCBI GenBank Nucleotide #	NM_012296.3
UniProt Accession #	Q9UQC2; O60317; A2RRM2; A6NEW9; A7MD36
Molecular Weight	74,458 Da
NCBI Official Full Name	GRB2-associated-binding protein 2 isoform b
NCBI Official Synonym Full Names	GRB2-associated binding protein 2
NCBI Official Symbol	GAB2
NCBI Protein Information	GRB2-associated-binding protein 2; pp100; Grb2-associated binder 2; growth factor receptor bound protein 2-associated protein 2
UniProt Protein Name	GRB2-associated-binding protein 2
UniProt Gene Name	GAB2
UniProt Synonym Gene Names	KIAA0571
UniProt Entry Name	GAB2_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.