

Rabbit RapGEF1 Polyclonal Antibody | anti-RapGEF1 antibody

Phospho-RapGEF1 (Thr1071) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329479	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (91%), Rabbit (91%), Dog (100%), Chicken (100%), Xenopus (82%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RapGEF1; Polyclonal Antibody; Phospho-RapGEF1 (Thr1071) Antibody; C3G; C3G protein; CRK SH3 binding GNRP; CRK SH3-binding GNRP; DKFZp781P1719; GRF 2; GRF2; Guanine nucleotide releasing factor 2 (specific for crk proto oncogene); Guanine nucleotide releasing factor 2; Guanine nucleotide-releasing factor 2; OTTHUMP00000064558; Protein C3G; Rap guanine nucleotide exchange factor (GEF) 1; Rap guanine nucleotide exchange factor 1; RAPGEF 1; RAPGEF1; RPF1_HUMAN; anti-RapGEF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (91%), Rabbit (91%), Dog (100%), Chicken (100%), Xenopus (82%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RapGEF1 (Thr1071) Antibody detects endogenous levels of RapGEF1 only when phosphorylated at Thr1071. Tissue Specificity: Ubiquitously expressed in adult and fetus. Expression is high in adult skeletal muscle and placenta and in fetal brain and heart. Low levels of expression in adult and fetal liver.
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-RapGEF1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RapGEF1 around the phosphorylation site of Thr1071.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation at Tyr-504 enhances activity as Rap guanine nucleotide exchange factor.
Subunit Structure	Interacts with CRK via its SH3-binding sites.
Subcellular Location	Early endosome.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
At 1/100 staining Mouse skin 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 (Immunohiostchemistry)
Staining Rat kidney 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 HeLa , using Phospho-RapGEF1 (Thr1071) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RapGEF1 antibody	Guanine nucleotide-releasing protein that binds to SH3 domain of CRK and GRB2/ASH. Transduces signals from CRK to activate RAS. Plays a role in the establishment of basal endothelial barrier function. Plays a role in nerve growth factor (NGF)-induced sustained activation of Rap1 and neurite outgrowth.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38373675
NCBI GeneID	2889
NCBI Accession #	NP_005303.2
NCBI GenBank Nucleotide #	NM_005312.2
UniProt Accession #	Q13905; Q5JUE4; Q8IV73
Molecular Weight	120,548 Da
NCBI Official Full Name	rap guanine nucleotide exchange factor 1 isoform a
NCBI Official Synonym Full Names	Rap guanine nucleotide exchange factor (GEF) 1
NCBI Official Symbol	RAPGEF1
NCBI Official Synonym Symbols	C3G; GRF2
NCBI Protein Information	rap guanine nucleotide exchange factor 1; CRK SH3-binding GNRP; guanine nucleotide-releasing factor 2 (specific for crk proto-oncogene)
UniProt Protein Name	Rap guanine nucleotide exchange factor 1
UniProt Gene Name	RAPGEF1
UniProt Synonym Gene Names	GRF2
UniProt Entry Name	RPGF1_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.