

Rabbit GRK1/2 Polyclonal Antibody | anti-GRK1/2 antibody

Phospho-GRK1/2 (Tyr13) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329872	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine (100%), Dog (100%), Chicken (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GRK1/2; Polyclonal Antibody; Phospho-GRK1/2 (Tyr13) Antibody; ADRBK1; Adrenergic beta receptor kinase 1; ARBK1_HUMAN; BARK; BARK1; Beta adrenergic receptor kinase 1; Beta ARK 1; Beta ARK1; Beta-adrenergic receptor kinase 1; Beta-ARK-1; FLJ16718; G protein coupled receptor kinase 2; G-protein coupled receptor kinase 2; GRK2; ADRBK2; Adrenergic; beta; receptor kinase 2; ARBK2_HUMAN; BARK2; Beta adrenergic receptor kinase 2; Beta ARK 2; Beta-adrenergic receptor kinase 2; Beta-ARK-2; EC 2.7.11.15; G protein coupled receptor kinase 3; G-protein-coupled receptor kinase 3; GRK3; anti-GRK1/2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-GRK1/2 (Tyr13) Antibody detects endogenous levels of GRK1/2 only when phosphorylated at Tyr13. Tissue Specificity: Expressed in peripheral blood leukocytes.
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-GRK1/2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GRK1/2 around the phosphorylation site of Tyr13.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Ubiquitinated.
Subunit Structure	Interacts with GIT1 (By similarity). Interacts with, and phosphorylates chemokine-stimulated CCR5. Interacts with ARRB1. Interacts with LPAR1 and LPAR2. Interacts with RALA in response to LPAR1 activation. ADRBK1 and RALA mutually inhibit each other's binding to LPAR1. Interacts with ADRB2.
Similarity	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.
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 ovarian 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.



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WB (Western Blot)
Western blot analysis GRK1/2 (Phospho-Tyr13) using UV treated A549 whole cell lysates.-/+ means absence or presence of N peptide(¼ non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-GRK1/2 antibody	Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	148539876
NCBI GeneID	156
NCBI Accession #	NP_001610.2
NCBI GenBank Nucleotide #	NM_001619.3
UniProt Accession #	P25098; P35626
Molecular Weight	79,574 Da
NCBI Official Full Name	beta-adrenergic receptor kinase 1
NCBI Official Synonym Full Names	adrenergic, beta, receptor kinase 1
NCBI Official Symbol	ADRBK1
NCBI Official Synonym Symbols	GRK2; BARK1; BETA-ARK1
NCBI Protein Information	beta-adrenergic receptor kinase 1; beta-ARK-1; G-protein coupled receptor kinase 2
UniProt Protein Name	Beta-adrenergic receptor kinase 1
UniProt Gene Name	ADRBK1
UniProt Synonym Gene Names	BARK; BARK1; GRK2; Beta-ARK-1
UniProt Entry Name	ARBK1_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.