

Rabbit GRK2 Polyclonal Antibody | anti-GRK2 antibody

Phospho-GRK2(Ser29) Antibody

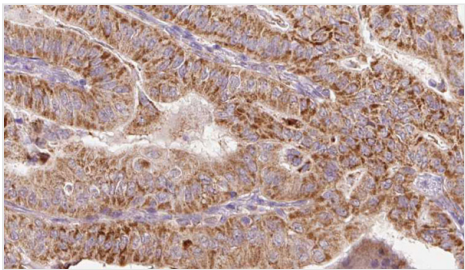
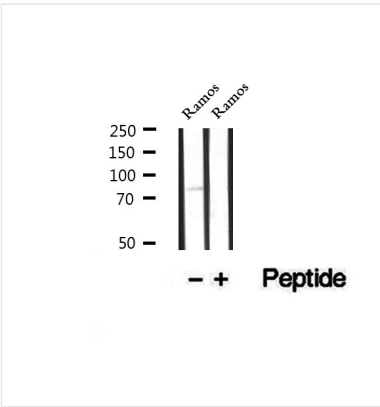
CATALOG # AAA321293	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

GRK2; Polyclonal Antibody; Phospho-GRK2(Ser29) 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; anti-GRK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-GRK2(Ser29) antibody detects endogenous levels of GRK2.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	689
Applicable Applications for anti-GRK2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GRK2 around the phosphorylation site of Ser29.
Subcellular Location	Plasma Membrane
Tissue Specificity	Expressed in peripheral blood leukocytes.
Predicted Cross Reactivity	Bovine, Dog, Chicken
Similarity	Bovine (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Epitope	Phospho Ser29
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321293 at 1/100 staining Human thyroid cancer 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of Ramos cells, using Phospho-GRK2(Ser29) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GRK2 antibody	Function: Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them. Key regulator of LPAR1 signaling. Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor. Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner (PubMed:19306925, PubMed:19715378). Positively regulates ciliary smoothened (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity (By similarity). Subunit Structure: Interacts with GIT1 (By similarity). Interacts with, and phosphorylates chemokine-stimulated CCR5 (PubMed:10085131). Interacts with ARRB1 (PubMed:9501202). Interacts with LPAR1 and LPAR2 (PubMed:19306925). Interacts with RALA in response to LPAR1 activation (PubMed:19306925). ADRBK1 and RALA mutually inhibit each other's binding to LPAR1 (PubMed:19306925). Interacts with ADRB2 (PubMed:19715378). Similarity: The PH domain binds anionic phospholipids and helps recruiting ADRBK1 from the cytoplasm to plasma membrane close to activated receptors. It mediates binding to G protein beta and gamma subunits, competing with G-alpha subunits and other G-betagamma effectors. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	148539876
NCBI GeneID	156
NCBI Accession #	NP_001610.2
NCBI GenBank Nucleotide #	NM_001619.4
UniProt Accession #	P25098; Q13837; Q6GTT3; B0ZBE1
Molecular Weight	Observed: 80 kDa Predicted: 80 kDa
NCBI Official Full Name	beta-adrenergic receptor kinase 1
NCBI Official Synonym Full Names	G protein-coupled receptor kinase 2
NCBI Official Symbol	GRK2
NCBI Official Synonym Symbols	BARK1; ADRBK1; BETA-ARK1
NCBI Protein Information	beta-adrenergic receptor kinase 1
UniProt Protein Name	Beta-adrenergic receptor kinase 1
UniProt Gene Name	GRK2

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/grk2-antibody-immunohistochemistry-western-blot-elisa/321293>