

Product datasheet for **TA327129**

GRK2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human ADRBK1
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	G protein-coupled receptor kinase 2
Database Link:	NP_001610 Entrez Gene 25238 Rat Entrez Gene 110355 Mouse Entrez Gene 156 Human P25098



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Background:

G-protein-coupled receptor kinase 2 (GRK2), also known as beta-adrenergic receptor kinase 1 (beta-ARK1), is a member of the GRK family, which phosphorylates the activated form of G-protein-coupled receptors (GPCRs) and initiates the desensitization process of GPCR. GRK2 kinase activity and cellular localization are tightly regulated by interactions with activated receptors, G-beta and G-gamma subunits, adaptor proteins, phospholipids, caveolin and calmodulin, as well as by phosphorylation. PKC phosphorylation enhances GRK2 activity by promoting its membrane localization and by abolishing the inhibitory association of calmodulin. PKA phosphorylates GRK2 at Ser685, which facilitates the association of GRK2 with a beta-adrenergic receptor. Erk inhibits GRK2 activity via phosphorylation at Ser670. Src phosphorylates GRK2 at multiple tyrosine residues (Tyr13, 86 and 92), which activates GRK2 activity and promotes GRK2 degradation .

Synonyms:

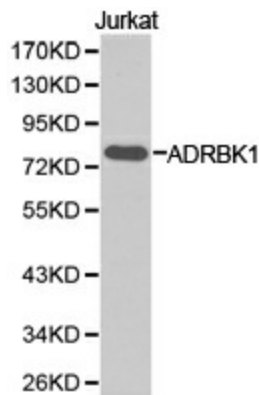
ADRBK1; BARK1; BETA-ARK1

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Chemokine signaling pathway, Endocytosis

Product images:

Western blot analysis of extracts of Jurkat cell lines, using ADRBK1 antibody.