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Datasheet for ABIN7153298  
**anti-GRK5 antibody (AA 406-590) (Biotin)**

### Overview

Quantity:	100 µg
Target:	GRK5
Binding Specificity:	AA 406-590
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRK5 antibody is conjugated to Biotin
Application:	ELISA

### Product Details

Immunogen:	Recombinant Human G protein-coupled receptor kinase 5 protein (406-590AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	GRK5
Alternative Name:	GRK5 ( <a href="#">GRK5 Products</a> )
Background:	Background: Serine/threonine kinase that phosphorylates preferentially the activated forms of a variety of G-protein-coupled receptors (GPCRs). Such receptor phosphorylation initiates beta-

## Target Details

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arrestin-mediated receptor desensitization, internalization, and signaling events leading to their down-regulation. Phosphorylates a variety of GPCRs, including adrenergic receptors, muscarinic acetylcholine receptors (more specifically Gi-coupled M2/M4 subtypes), dopamine receptors and opioid receptors. In addition to GPCRs, also phosphorylates various substrates: Hsc70-interacting protein/ST13, TP53/p53, HDAC5, and arrestin-1/ARRB1. Phosphorylation of ARRB1 by GRK5 inhibits G-protein independent MAPK1/MAPK3 signaling downstream of 5HT4-receptors. Phosphorylation of HDAC5, a repressor of myocyte enhancer factor 2 (MEF2) leading to nuclear export of HDAC5 and allowing MEF2-mediated transcription. Phosphorylation of TP53/p53, a crucial tumor suppressor, inhibits TP53/p53-mediated apoptosis. Phosphorylation of ST13 regulates internalization of the chemokine receptor. Phosphorylates rhodopsin (RHO) (in vitro) and a non G-protein-coupled receptor, LRP6 during Wnt signaling (in vitro).

Aliases: FLJ39780 antibody, FP2025 antibody, G protein coupled receptor kinase 5 antibody, G protein coupled receptor kinase GRK5 antibody, G protein-coupled receptor kinase 5 antibody, G protein-coupled receptor kinase GRK5 antibody, GPRK5 antibody, GRK-pan antibody, GRK5 antibody, GRK5\_HUMAN antibody, Pan-GRK antibody

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UniProt: [P34947](#)

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Pathways: [Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein Signaling](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C,-80 °C

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Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.