

DESCRIPTION

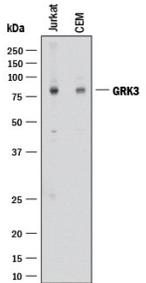
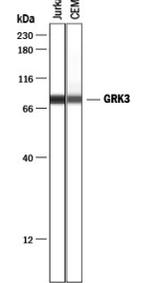
Species Reactivity	Human
Specificity	Detects human GRK3 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GRK3 Pro469-Leu688 Accession # P35626
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Simple Western	20 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human GRK3 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line and CEM human T-lymphoblastoid cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human GRK3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4785) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for GRK3 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Simple Western</p>  <p>Detection of Human GRK3 by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line and CEM human T-lymphoblastoid cell line, loaded at 0.2 mg/mL. A specific band was detected for GRK3 at approximately 80-81 kDa (as indicated) using 20 µg/mL of Sheep Anti-Human GRK3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4785) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

G protein-coupled receptor kinases (GRKs) are important modulators of G protein-coupled receptor (GPCR) signaling. Receptor phosphorylation by specific GRKs plays a key role in triggering rapid desensitization. The GRK family consists of 7 isoforms that share a central catalytic domain with homology to other serine/threonine kinases. The catalytic domain is flanked by an amino-terminal RGS domain of 183-188 amino acids and a carboxyl-terminus of variable length. GRK3 (also known as β-adrenergic receptor kinase 2, or βARK2) and GRK2 (βARK1) are members of the β-adrenergic receptor kinase subfamily. GRK3 may phosphorylate α-synuclein at S129, suggesting a potential involvement for this kinase in Parkinson's disease.