

DESCRIPTION

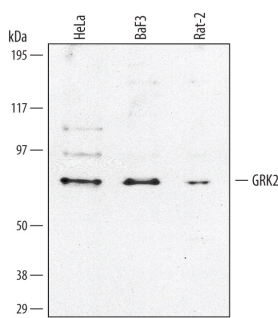
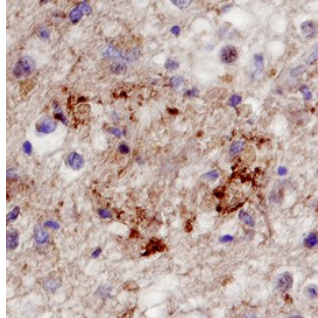
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat GRK2.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GRK2 Pro468-Leu689 Accession # P25098
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse/Rat GRK2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, BaF3 mouse pro-B cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat GRK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4339) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for GRK2 at approximately 79 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>GRK2 in Human Alzheimer's Disease Brain. GRK2 was detected in immersion fixed paraffin-embedded sections of human Alzheimer's disease brain using Human/Mouse/Rat GRK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4339) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of neurons. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</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. GRK2 is a member of the βARK subfamily, and was originally termed β-adrenergic receptor kinase 1 (βARK1).