

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat GRB7 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human GRB7 Met130-Tyr274 Accession # Q14451
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.

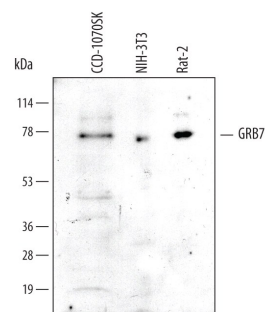
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	1-15 µg/mL	See Below

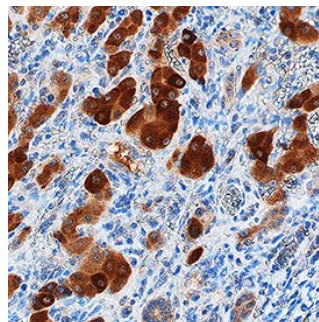
DATA

Western Blot



Detection of Human/Mouse/Rat GRB7 by Western Blot. Western blot shows lysates of CCD-1070Sk human foreskin fibroblast cell line, NIH-3T3 mouse embryonic fibroblast cell line and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat GRB7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4856) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for GRB7 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunohistochemistry



GRB7 in Human Liver Cancer Tissue. GRB7 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Sheep Anti-Human/Mouse/Rat GRB7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4856) at 1 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Sheep IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC006). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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

GRB7 (Growth factor receptor-bound protein 7) mediates the coupling of multiple cell surface receptors to downstream signaling pathways in the regulation of various cellular functions, such as proliferation, apoptosis, and cell migration. GRB7 protein consists of several distinctive structural features, including an amino-terminal proline-rich region, a central GM region (for Grb and Mig), and a carboxyl-terminal SH2 domain. GRB7 is phosphorylated by focal adhesion kinase at cell adhesion sites.