

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat p70 S6K and p85 S6K (also known as p70 S6K α1), an isoform with 23 extra residues at the N-terminus. Reactivity with β isoforms of p70 S6K is unknown.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human p70 S6K Accession # M60725
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.

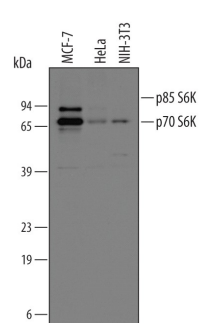
APPLICATIONS

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	0.2 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	See Below
Simple Western	2 μg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

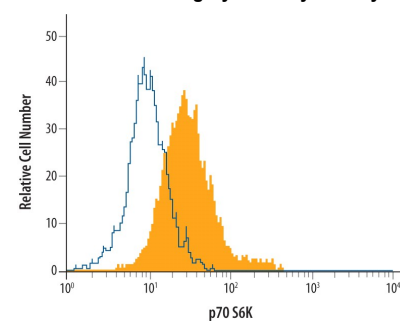
DATA

Western Blot



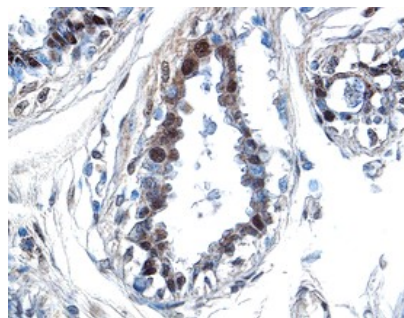
Detection of Human and Mouse p70 S6 Kinase by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, HeLa human cervical epithelial carcinoma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.2 μg/mL of Rabbit Anti-Human/Mouse/Rat p70 S6 Kinase Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8962) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for p70 S6 Kinase at approximately 70 and 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Intracellular Staining by Flow Cytometry



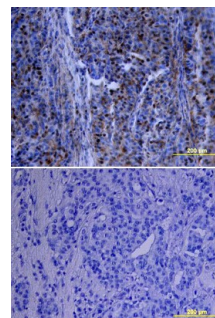
Detection of p70 S6 Kinase in HeLa Human Cell Line by Flow Cytometry. HeLa human cervical epithelial carcinoma cell line was stained with Rabbit Anti-Human/Mouse/Rat p70 S6 Kinase Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8962, filled histogram) or control antibody (Catalog # AB-105-C, open histogram), followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with methanol.

Immunohistochemistry



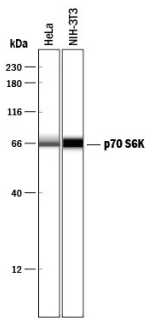
p70 S6 Kinase in Human Breast Cancer Tissue. p70 S6 Kinase was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Rabbit Anti-Human/Mouse/Rat p70 S6 Kinase Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8962) at 1.7 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Rabbit HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). Specific labeling was localized to the nuclei of epithelial cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunohistochemistry



p70 S6 Kinase in Human Breast Cancer Tissue. p70 S6 Kinase was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Rabbit Anti-Human/Mouse/Rat p70 S6 Kinase Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8962) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Rabbit HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Simple Western



Detection of p70 S6 Kinase by Simple Western™. Simple Western lane view shows lysates of HeLa human cervical epithelial carcinoma cell line and NIH-3T3 mouse embryonic fibroblast cell line, loaded at 0.2 mg/mL. A specific band was detected for p70 S6 Kinase at approximately 66 kDa (as indicated) using 2 µg/mL of Rabbit Anti-Human/Mouse/Rat p70 S6 Kinase Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8962). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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.

- 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.