

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Akt1, Akt2, and Akt3 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Akt synthetic peptide IRCLQWTTVIERTFHV Accession # P31749
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.

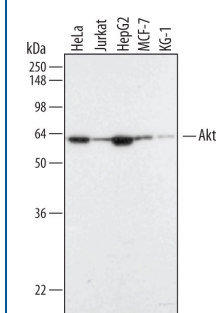
APPLICATIONS

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	0.1 µg/mL	See Below
Simple Western	20 µg/mL	HDLM-2 human Hodgkin's lymphoma cell line

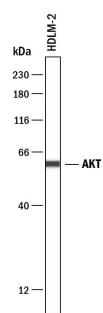
DATA

Western Blot



Detection of Human Akt by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, HepG2 human hepatocellular carcinoma cell line, MCF-7 human breast cancer cell line, and KG-1 human myeloid leukemia cell lines. PVDF membrane was probed with 0.1 µg/mL of Human Akt Pan Specific, Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2055) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Akt Pan Specific, at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Simple Western



Detection of Human Akt by Simple Western™. Simple Western lane view shows lysates of HDLM-2 human Hodgkin's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Akt at approximately 60 kDa (as indicated) using 20 µg/mL of Rabbit Anti-Human Akt Pan Specific Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2055). 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. <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

Rabbit antibodies were raised against a synthetic peptide corresponding to amino acids 75-90 of human v-akt murine thymoma viral oncogene homolog 1 (Akt1), also known as protein kinase B alpha (PKBα) and RAC-alpha serine/threonine kinase (RAC-PK-α). In addition, this peptide sequence is identical to amino acids 75-90 of human Akt2 (PKBβ, RAC-PK-β), and amino acids 74-89 of human Akt3 (PKBγ, RAC-PK-γ).