

AKT [pT308] Rabbit Recombinant Oligoclonal Antibody – Purified

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Catalog Number: 710122

Store at 2–8°C

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human AKT
Predicted Reactivity: Human

Product Description

AKT is a serine/threonine kinase which plays a role in regulating cell survival, cell proliferation, differentiation, glucose metabolism, and protein synthesis. AKT is activated by cytokines and growth factors in a PI-3 kinase-dependent manner, involving phospholipid binding, and phosphorylation of the activation loop at Threonine 308 by PDK1.

Product Specifications

Immunogen: Phosphopeptide corresponding to amino acids 304–312 of human AKT
Alternate Names: PKB (protein kinase B), Akt1 kinase, v-akt murine thymoma viral oncogene homolog 1
Apparent MW: ~56 kDa
Gene ID: 11651
Protein Accession No.: P31749
Sequence Identity: Human
Clone/PAD: B18HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	U87-MG cells	0.1–2 µg/mL
Immunocytochemistry	Human	HeLa cells	1–3 µg/mL
Indirect ELISA	Human	Phosphopeptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2–8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

Expires one year from date of receipt when stored as instructed.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

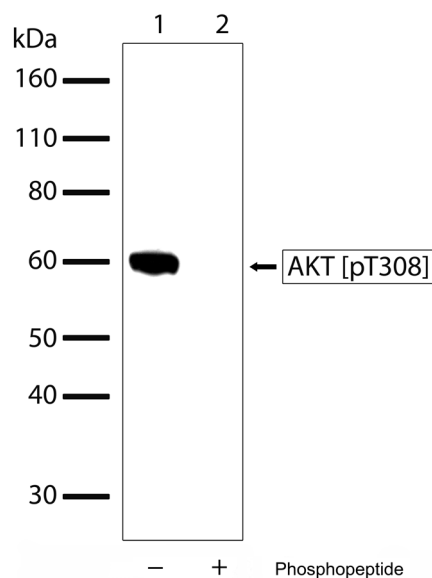


Figure 1 Western blot analysis of AKT [pT308] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710122). Western blot analysis was performed on whole cell extracts of U87-MG (lane 1 and 2). A band corresponding to phosphorylated AKT at ~60 kDa was detected using AKT [pT308] Rabbit Recombinant Oligoclonal Antibody at a concentration of 1 µg/mL (lane 1). To confirm specificity, competition was performed with the phosphopeptide (lane 2).

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Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze™ Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze™ Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

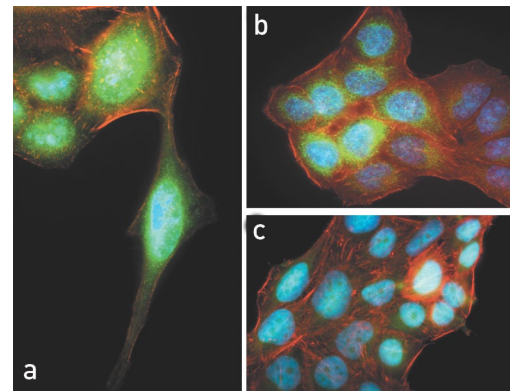


Figure 2 Immunocytochemistry analysis of AKT [pT308] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710122). Immunocytochemistry analysis of HeLa cells stained with AKT [pT308] Rabbit Recombinant Oligoclonal Antibody with Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). DAPI was used to stain the nucleus, and Alexa Fluor® 594 phalloidin was used to stain actin (red). **a and b**: composite image of cells showing nuclear localization of phosphorylated AKT. **c**: image showing results of competition assay using phospho AKT [pT308] peptide.

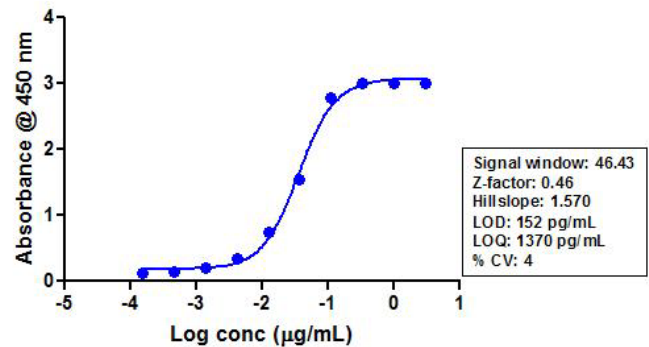


Figure 3 Indirect ELISA of AKT [pT308] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710122). Indirect ELISA was performed using various dilutions of AKT [pT308] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710122) to detect phospho AKT [pT308] peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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