

Product Datasheet

AKT (Phospho-S473) Rabbit Polyclonal Antibody (orb213538)

Catalog Number	orb213538
Category	Antibodies
Description	The AKT (Phospho-S473) Antibody is suitable for IF, IHC, WB. It is a Polyclonal, Unconjugated antibody which raised against KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S473 of human AKT protein. The exact sequence is proprietary. Purification: The antibody was purified by immunogen affinity chromatography.
Target	AKT1; AKT2; AKT3
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	Unconjugated
Reactivity	Bovine, Human, Mouse, Rat, Sheep, Zebrafish
Form/Appearance	Liquid
Buffer/Preservatives	0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purification	The antibody was purified by immunogen affinity chromatography.
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S473 of human AKT protein. The exact sequence is proprietary.
UniProt ID	P31749, P31750, Q63484, P31751, Q9Y243, Q9WUA6, P47196, P47197, Q60823

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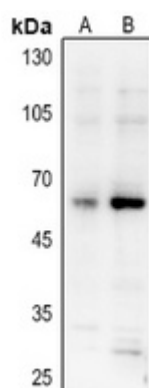
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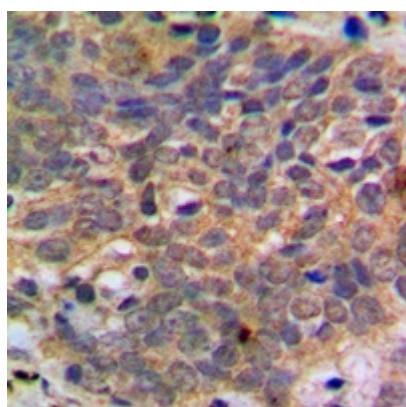
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Tested applications	IF, IHC, WB
Dilution range	WB: 1-500-1-1000, IHC-P: 1-100-1-200
Specificity	Recognizes endogenous levels of AKT protein only when phosphorylated at S473.
Antibody Type	Primary Antibody
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Entrez	208, 23797, 24185, 207, 11651, 29414, 11652, 25233, 10000
Expiration Date	12 months from date of receipt.



Western blot analysis of AKT (Phospho-S473) expression in HEK293T treated with insulin (A), HEK293T treated with serum (B) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 60 kD)



Immunohistochemical analysis of AKT (Phospho-S473) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (Phospho-H 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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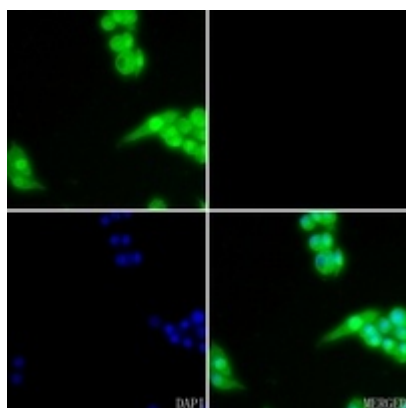
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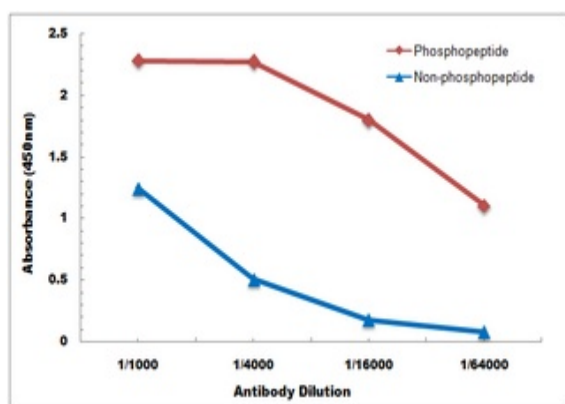
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Immunofluorescent analysis of AKT (Phospho-S473) staining in C6 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Direct ELISA antibody dose-response curve using Anti-AKT (Phospho-S473) Antibody. Antigen (Phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

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