

## Product Datasheet

# AKT (Phospho-S473) Rabbit Polyclonal Antibody (orb304681)

<b>Catalog Number</b>	orb304681
<b>Category</b>	Antibodies
<b>Description</b>	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.
<b>Target</b>	AKT1; AKT2; AKT3
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Rabbit
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Bovine, Gallus, Human, Mouse, Porcine, Rat, Zebrafish
<b>Form/Appearance</b>	Liquid
<b>Buffer/Preservatives</b>	0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
<b>Purification</b>	The antibody was purified by immunogen affinity chromatography.
<b>Immunogen</b>	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S473 of human AKT protein. The exact sequence is proprietary.
<b>UniProt ID</b>	<b>P31749, P31750, P47196</b>
<b>Tested applications</b>	IF, IHC, WB

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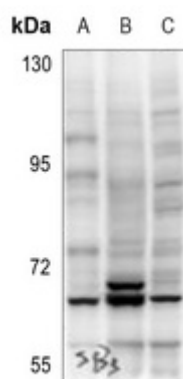
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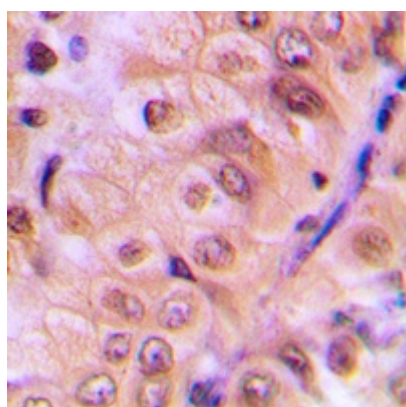
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<b>Dilution range</b>	WB: 1:500-1000, IHC-P: 1:100-200, IF/ICC: 1:100-500
<b>Specificity</b>	Recognizes endogenous levels of AKT protein only when phosphorylated at S473.
<b>Antibody Type</b>	Primary Antibody
<b>Storage</b>	Maintain refrigerated at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



Western blot analysis of AKT (Phospho-S473) expression in U87MG (A), HEK293T (B), A549 (C) 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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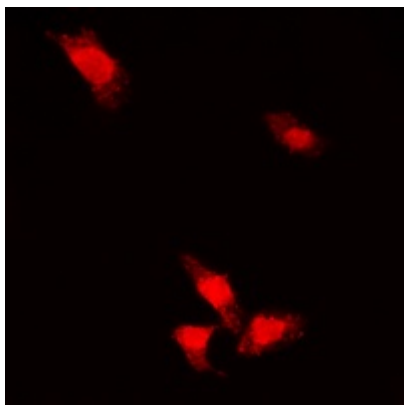
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Immunofluorescent analysis of AKT (Phospho-S473) staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the 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 DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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