

AKT1 Antibody | anti-AKT1 antibody

AKT1 (phospho-Thr450) Antibody

CATALOG # AAA111101	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunohistochemistry
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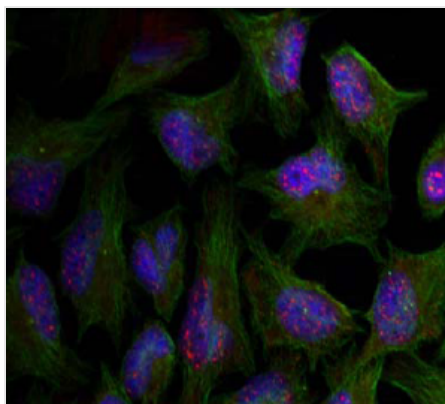
PRODUCT SYNONYMS

AKT1; AKT1 (phospho-Thr450) Antibody; anti-AKT1 antibody

PRODUCT SPECIFICATIONS

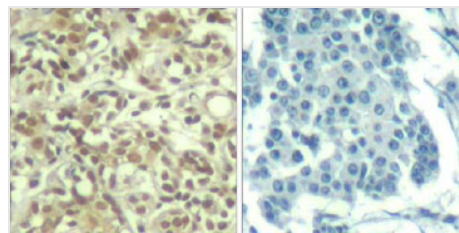
Reactivity	Human, Mouse, Rat
Specificity	AKT1 (phospho-Thr450) Antibody detects endogenous levels of AKT1 only when phosphorylated at threonine 450.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Form/Format	In phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	480
Applicable Applications for anti-AKT1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human AKT1 around the phosphorylation site of threonine 450 (T-I-TP-P-P).
Preparation and Storage	Store at -20 degree C for 1 year

IMAGES



Application Data

Immunofluorescence staining of methanol-fixed HeLa cells using AKT1 (phospho-Thr450) Antibody (E011502, red).



Application Data

P-Peptide - +Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AKT1 (phospho-Thr450) Antibody (E011502).

ADDITIONAL INFORMATION

Product Categories/Family for anti-AKT1 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
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References	Franke, T.F. et al. (1997) Cell 88, 435-7. Sarbassov, D.D. et al. (2005) Science 307, 1098-101. Cantley, L.C. and Neel, B.G. (1999) Proc Natl Acad Sci USA 96, 4240-5. Hajduch, E. et al. (2001) FEBS Lett 492, 199-203. Gesbert, F. et al. (2000) J Biol Chem 275, 39223-30.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62241013
NCBI GeneID	207
NCBI Accession #	NP_001014431.1
NCBI GenBank Nucleotide #	NM_001014431.1
UniProt Accession #	P31749; Q9BWB6; B2RAM5; B7Z5R1
Molecular Weight	48,347 Da
NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase
NCBI Official Synonym Full Names	AKT serine/threonine kinase 1
NCBI Official Symbol	AKT1
NCBI Official Synonym Symbols	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	AKT1
UniProt Synonym Gene Names	PKB; RAC; PKB; PKB alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.