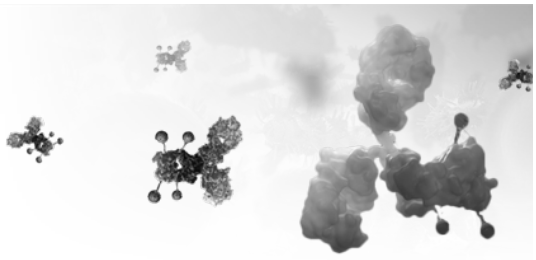

Rabbit Anti-Akt1 (N-Terminal) Polyclonal antibody (CPBT-66428RA)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product recognises the N-terminal region of Akt1, a 48kDa protein kinase forming part of the PI3K-Akt signalling pathway, known to regulate cell growth, proliferation and survival. The PI3K-Akt1 pathway is negatively regulated by the tumour suppressor PTEN. Excessive Akt1 activation can lead to the formation of malignant tumours, and has been associated with prostate cancer progression. Western Blotting detects a band of approximately 48 kDa in human liver cell lysates.
Specificity	AKT1
Immunogen	A 16 amino acid peptide located near the human Akt1 amino-terminus.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	0.02% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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GENE INFORMATION

Gene Name	AKT1 v-akt murine thymoma viral oncogene homolog 1 [Homo sapiens (human)]
Official Symbol	AKT1
Synonyms	AKT1; v-akt murine thymoma viral oncogene homolog 1; AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA; RAC-alpha serine/threonine-protein kinase; AKT1m; PKB alpha; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha; AKT1;
Entrez Gene ID	207
Protein Refseq	NP_001014431
UniProt ID	P31749
Chromosome Location	14q32.32
Pathway	AGE/RAGE pathway; AKT phosphorylates targets in the cytosol; AKT phosphorylates targets in the nucleus; AKT-mediated inactivation of FOXO1A; AMPK signaling; AMPK signaling pathway; Activation of BAD and translocation to mitochondria; Activation of BH3-only proteins;
Function	14-3-3 protein binding; ATP binding; enzyme binding; identical protein binding; kinase activity; nitric-oxide synthase regulator activity; phosphatidylinositol-3,4,5-trisphosphate binding; phosphatidylinositol-3,4-bisphosphate binding; protein binding; protein kinase C binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity;

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