

Akt3 protein

Catalog No :	YD0072
Reactivity :	Human
Applications :	WB;SDS-PAGE
Gene Name :	AKT3
Protein Name :	Akt3 protein
Sequence :	Amino acid: 264-465, with his-MBP tag.
Human Gene Id :	10000
Human Swiss Prot No :	Q9Y243
Mouse Swiss Prot No :	Q9WUA6
Formulation :	Liquid in PBS
Source :	E.coli
Dilution :	WB 1:500-2000
Concentration :	SDS-PAGE >90%
Storage Stability :	-20 °C/6 month, -80 °C for long storage
Background :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:Binding of the PH domain to the phosphatidylinositol 3-kinase alpha (PI(3)K) results in its targeting to the plasma membrane.,enzyme regulation:Two specific sites, one in the kinase domain (Thr-305) and the other in the C-terminal regulatory region (Ser-472), need to be phosphorylated for its full activation.,function:IGF-1 leads to the activation of AKT3, which may play a role in regulating cell survival. Capable of phosphorylating several known proteins. Truncated isoform 2/PKB gamma 1 without the second serine phosphorylation site could still be stimulated but to a lesser extent.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC

subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Membrane-associated after cell stimulation leading to its translocation.,subunit:Interacts (via PH domain) with TCL1A; this enhances AKT3 phosphorylation and activation.,tissue specificity:In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney.,

Function :

protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, phosphorylation,

Subcellular Location :

Nucleus . Cytoplasm . Membrane ; Peripheral membrane protein . Membrane-associated after cell stimulation leading to its translocation.

Expression :

In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney.

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