## Recombinant Human AKT3 Protein Data Sheet

Catalog #	hRP-Z3429-EF012				
Size	100 μg				
Protein Name	Human RAC-gamma serine/threonine-protein kinase				
Protein Symbol	AKT3				
Original Source	Homo sapiens				
Expression System	E.coli				
GenBank Accession #	NM 181690.1				
Uniprot Accession #	NM_181690.1 O9Y243-2				
Description	AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in upregulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.				
Application	WB, ELISA, IP, antibody production, protein array				
Fusion tag	N-His				
Peptide Length	480aa(including fusion tag)				
Molecular Weight	55.9kDa(including fusion tag)				
pI	6.8				
Activity	NA				
Storage	Storage buffer: 20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH8.0. Store at -80°C and avoid repeated freeze-thaw cycles.  kDa 120 85 67 55 45 28				
Reference:	• Increased level of phosphorylated akt measured by chemiluminescence-linked immunosorbent assay is a predictor of poor prognosis in primary breast cancer overexpressing <a href="https://example.com/ErbB-2"><u>ErbB-2.</u></a>				



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