

Datasheet for ABIN7319999

AKT3 Protein**1** Image[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	AKT3
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Mouse AKT3 Protein (aa 106-479)(Active)
Sequence:	Ala106-Glu479
Characteristics:	A DNA sequence encoding the AKT3 (Q9WUA6-1) (Ala106-Glu479) was expressed and purified.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 20 nmol/min/mg using synthetic GSK3-derived peptide (R11-SGRARTSSFAEPGGK) as substrate.

Target Details

Target:	AKT3
Alternative Name:	AKT3 (AKT3 Products)
Background:	Background: v-akt murine thymoma viral oncogene homolog 3 (AKT3), also known as PKB-

Target Details

GAMMA, with AKT1/PKBalpha, AKT2/PKBbeta, are the members of Akt kinase family, share extensive structural similarity and perform common as well as unique functions within cells. The Akt signaling cascade initiates at the cell surface when growth factors or other extracellular stimuli activate phosphoinositide 3-kinase (PI3K). AKT3 was discovered to be the predominant isoform activated in sporadic melanomas. Levels of activity increased during melanoma progression with metastatic melanomas having the highest activity. Although mechanisms of AKT3 activation remain to be fully characterized, overexpression of AKT3 and decreased PTEN activity play important roles in this process. Targeted reduction of AKT3 activity decreased survival of melanoma tumor cells leading to inhibition of tumor development, which may be therapeutically effective for shrinking tumors in melanoma patients. AKT2 and AKT3 play an important role in the viability of human malignant glioma cells. Targeting AKT2 and AKT3 may hold promise for the treatment of patients with gliomas.

Synonym: AI851531,D930002M15Rik,Nmf350

Molecular Weight: 43.4 kDa

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [TLR Signaling](#), [Hepatitis C](#), [VEGF Signaling](#)

Application Details

Restrictions: For Research Use only

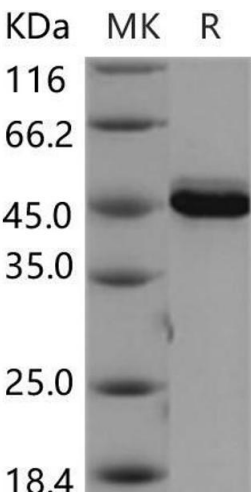
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.