AKT1 Recombinant Monoclonal Mouse Antibody (rAKT1/2491)



Call us: 800-304-5357

Product Description

This antibody recognizes a protein of 62 kDa, which is identified as AKT1. The serine/threonine kinas contains several members, including Akt1 (also designated PKB or RacPK), Akt2 (also designated PKB RacPK-beta) and Akt3 (also designated PKB-gamma or thymoma viral proto-oncogene 3), which exh homology with the protein kinase A and C families and are encoded by the c-Akt proto-oncogene. All r the Akt Tamily have a Pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. is dependent on PDGFR-beta tyrosine residues 740 and 751, which bind the subunit of the phosphatic 3-kinase (PI 3-kinase) complex. Activation of Akt1 by insulin or insulin-growth factor-1 (IGF-1) results phosphorylation of both Thr 308 and Ser 473. Akt proteins become phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase(s), and the activation of Akt1 and Akt2 is inhibite kinase inhibitor wortmannin. Primary antibodies are available purified, or with a selection of fluorescer and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochurinformation. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recomme detecting low abundance targets, because blue dyes have lower fluorescence and can give higher nor background than other dye colors. Stock status: Because Biotium offers a large number of antibody conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. <u>order@biotium.com</u> to inquire about stock status and lead times before placing your order. **Catalog number key** for antibody number 3786, AKT1 Recombinant Monoclonal Mouse Antibody (rAKT1/2491)

	Product attributes			
	Antibody number	#3786		
	research-areas	Apoptosis, Cell cycle, Signal transduction		
	Antibody reactivity	AKT1		
	Antibody type	Primary		
	Host species	Mouse		
	Clonality	Recombinant Monoclonal		
	Clone	rAKT1/2491		
	Isotype	IgG1, kappa		
se Akt family KBbeta or hibit sequence members of . This activation idylinositol in	Molecular weight	62 kDa		
	Synonyms	AKT1; PKB; Protein Kinase B Alpha; RAC-alpha serine/threonine-protein kinase		
	Human gene symbol	AKT1		
	Entrez gene ID	207		
	SwissProt	P31749		
ed by the PI nt CF® dyes ure for more nended for on-specific and one week for Please email number key	Unigene	525622		
	Immunogen	Recombinant fragment of human AKT1 protein (around aa 85-189) (exact sequence is proprietary)		
	Verified antibody applications Antibody target cellular localization	IHC (FFPE) (verified), WB (verified)		
		Cytoplasmic, Plasma membrane, Nucleus		
	Species reactivity	Human		
	Positive control	PDGF-treated NIH/3T3 cells. HeLa cell		

Shipping condition

Storage Conditions

Regulatory status

Antibody/conjugate formulation

Shelf life

Email: btinfo@biotium.com

lysates. Human pancreas or cervica

Store at 2 to 8 °C, Protect fluorescent

conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C

Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS

Guaranteed for at least 24 months from date of receipt when stored as

For research use only (RUO)

carcinoma.

without azide

Room temperature

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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