

Datasheet for ABIN745283 anti-RPS6KA3 antibody (pTyr529)

100 μL

2 Images



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Quantity:

Quartity.	100 μΣ	
Target:	RPS6KA3	
Binding Specificity:	pTyr529	
Reactivity:	Human, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This RPS6KA3 antibody is un-conjugated	
Application:	ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))	
Product Details		
Immunogen:	KLH conjugated synthetic phosphopeptide derived from human RSK2 around the phosphorylation site of Tyr529	
Isotype:	IgG	
Specificity:	This phosphorylation site is homologous in the listed cross reactive species at the specified location.	
Cross-Reactivity:	Human, Mouse	
Predicted Reactivity:	Rat,Dog,Cow,Pig,Horse,Chicken,Rabbit	
Purification:	Purified by Protein A.	

Target Details

Target:	RPS6KA3		
Alternative Name:	RSK2 (RPS6KA3 Products)		
Background:	Synonyms: CLS, RSK, HU-3, RSK2, MRX19, ISPK-1, p90-RSK2, pp90RSK2, MAPKAPK1B, S6K-		
	alpha3, Ribosomal protein S6 kinase alpha-3, S6K-alpha-3, 90 kDa ribosomal protein S6 kinase		
	3, p90-RSK 3, p90RSK3, Insulin-stimulated protein kinase 1, MAP kinase-activated protein		
	kinase 1b, MAPK-activated protein kinase 1b, MAPKAP kinase 1b, MAPKAPK-1b, Ribosomal S6		
	kinase 2, RSK-2, RPS6KA3, ISPK1		
	Background: Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and		
	MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of the		
	transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77, regulates translation through		
	RPS6 and EIF4B phosphorylation, and mediates cellular proliferation, survival, and		
	differentiation by modulating mTOR signaling and repressing pro-apoptotic function of BAD and		
	DAPK1. In fibroblast, is required for EGF-stimulated phosphorylation of CREB1 and histone H3		
	at 'Ser-10', which results in the subsequent transcriptional activation of several immediate-early		
	genes. In response to mitogenic stimulation (EGF and PMA), phosphorylates and activates		
	NR4A1/NUR77 and ETV1/ER81 transcription factors and the cofactor CREBBP. Upon insulin-		
	derived signal, acts indirectly on the transcription regulation of several genes by		
	phosphorylating GSK3B at 'Ser-9' and inhibiting its activity. Phosphorylates RPS6 in response to		
	serum or EGF via an mTOR-independent mechanism and promotes translation initiation by		
	facilitating assembly of the preinitiation complex. In response to insulin, phosphorylates EIF4B,		
	enhancing EIF4B affinity for the EIF3 complex and stimulating cap-dependent translation. Is		
	involved in the mTOR nutrient-sensing pathway by directly phosphorylating TSC2 at 'Ser-1798',		
	which potently inhibits TSC2 ability to suppress mTOR signaling, and mediates phosphorylation		
	of RPTOR, which regulates mTORC1 activity and may promote rapamycin-sensitive signaling		
	independently of the PI3K/AKT pathway. Mediates cell survival by phosphorylating the pro-		
	apoptotic proteins BAD and DAPK1 and suppressing their pro-apoptotic function. Promotes the		
	survival of hepatic stellate cells by phosphorylating CEBPB in response to the hepatotoxin		
	carbon tetrachloride (CCI4).		
Gene ID:	6197		
UniProt:	P51812		
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-		
	Like Receptors Cascades		

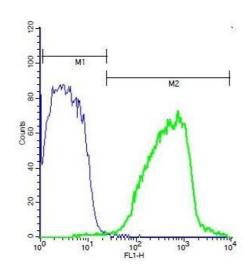
Application Details

Application Notes:	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

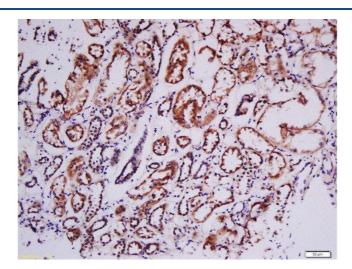
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Flow Cytometry

Image 1. Mouse brain probed with Rabbit Anti-RSK2 (Tyr529) Polyclonal Antibody, Unconjugated (ABIN745283) (green) at 1:100 for 40 minutes followed by a FITC conjugated secondary compared to control cells (blue).



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human kidney labeled with Rabbit Anti-RSK2(Tyr529) Polyclonal Antibody, Unconjugated (ABIN745283) at 1:200 followed by conjugation to the secondary antibody and DAB staining