antibodies -online.com





anti-RPS6KA1 antibody (pSer363, pThr359)

3 Images



Go to Product page

Overview

Quantity:	100 μL
Target:	RPS6KA1
Binding Specificity:	pSer363, pThr359
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPS6KA1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

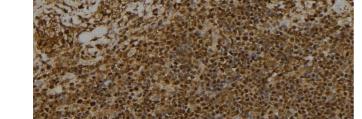
Immunogen:	A synthesized peptide derived from human RSK1 p90 around the phosphorylation site of T359+S363.
Isotype:	IgG
Specificity:	Phospho-RSK1 p90 (Thr359+Ser363) Antibody detects endogenous levels of RSK1 p90 only when phosphorylated at PT359+S363.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	RPS6KA1
Alternative Name:	RPS6KA1 (RPS6KA1 Products)
Background:	Description: 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, 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 pre-
	initiation 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). Mediates induction of hepatocyte prolifration by TGFA through phosphorylation of
	CEBPB (By similarity). Is involved in cell cycle regulation by phosphorylating the CDK inhibitor
	CDKN1B, which promotes CDKN1B association with 14-3-3 proteins and prevents its
	translocation to the nucleus and inhibition of G1 progression. Phosphorylates EPHA2 at 'Ser-
	897', the RPS6KA-EPHA2 signaling pathway controls cell migration (PubMed:26158630).
	Gene: RPS6KA1
Molecular Weight:	90kDa
Gene ID:	6195
UniProt:	Q15418
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-
	Like Receptors Cascades

Application Details

Application Notes:	WB 1:1000-3000, IHC 1:200, IF/ICC, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months
Images	



Immunohistochemistry

Image 1. ABIN6274034 at 1/100 staining Human spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



kDa 250— 150— 100— 75— 50— 37— 25— 20— 15—

Immunofluorescence (fixed cells)

Image 2. ABIN6274034 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 3. Western blot analysis of Phospho-RSK1 p90 (T359+S363) using COLO205 whole cell lysates