

(Mouse) Rps6ka1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21230b

Product Information

Application	WB, E
Primary Accession	<u>P18653</u>
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52427
Calculated MW	81595
	81595

Additional Information

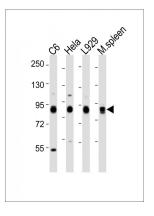
Gene ID	20111
Target/Specificity	This mouse Rps6ka1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 704-738 amino acids from the C-terminal region of mouse Rps6ka1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	(Mouse) Rps6ka1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Rps6ka1
Synonyms	Mapkapk1a, Rsk1
Function	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 (By

	similarity). In fibroblast, is required for EGF-stimulated phosphorylation of CREB1, which results in the subsequent transcriptional activation of several immediate-early genes (By similarity). In response to mitogenic stimulation (EGF and PMA), phosphorylates and activates NR4A1/NUR77 and ETV1/ER81 transcription factors and the cofactor CREBBP (By similarity). Upon insulin-derived signal, acts indirectly on the transcription regulation of several genes by 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 (By similarity). In response to insulin, 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 (By similarity). In response to insulin, phosphorylates EIF4B, enhancing EIF4B affinity for the EIF3 complex and stimulating cap-dependent translation (By similarity). 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 phosphorylating of RPTOR, which regulates mTORC1 activity and may promote rapamycin-sensitive signaling independently of the P13K/AKT pathway (By similarity). Also involved in feedback regulation of mTORC1 and mTORC2 by phosphorylating DEPTOR (By similarity). Mediates cell survival by phosphorylating the pro-apoptotic proteins BAD and DAPK1 and suppressing their pro-apoptotic function (By similarity). Promotes the survival of hepatic stellate cells by phosphorylating CEBPB in response to the hepatotoxin carbon tetrachloride (CCl4) (PubMed:10635333). Mediates induction of hepatocyte prolifration by TGFA through phosphorylating the EDFB (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 it translocation to the nucleus and inhibitio
Cellular Location	Nucleus. Cytoplasm.
Tissue Location	Intestine, thymus, and lung.

Images



All lanes : Anti-Rps6ka1 Antibody (C-term) at 1:2000 dilution Lane 1: C6 whole cell lysates Lane 2: Hela whole cell lysates Lane 3: L929 whole cell lysates Lane 4: mouse spleen lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 82 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.