G-Biosciences Image not found or type unknown

Immunotag™ RSK1 p90 Antibody

Antibody Specification

Catalog No.	ITA7707
Product Description	Immunotag™ RSK1 p90 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	RSK1 p90
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:1000-3000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human RSK1 p90
Specificity	RSK1 p90 Antibody detects endogenous levels of total RSK1 p90
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	RPS6KA1
Accession No.	Q15418

Antibody Specification

Alternate Names	90 kDa ribosomal protein S6 kinase 1; dJ590P13.1 (ribosomal protein S6 kinase, 90kD, polypeptide 1; dJ590P13.1; EC 2.7.11.1; HU 1; HU1; KS6A1_HUMAN; MAP kinase activated protein kinase 1a; MAP kinase-activated protein kinase 1a; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; MAPKAPK1A; MGC79981; Mitogen-activated protein kinase-activated protein kinase 1A; OTTHUMP00000004113; p90 RSK1; p90-RSK 1; p90rsk; p90RSK1; p90S6K; pp90RSK1; Ribosomal protein S6 kinase 90kD 1; Ribosomal protein S6 kinase 90kD polypeptide 1; Ribosomal protein S6 kinase 90kDa polypeptide 1; Ribosomal protein S6 kinase alpha 1; Ribosomal protein S6 kinase alpha-1; Ribosomal protein S6 kinase polypeptide 1; Ribosomal S6 kinase 1; RPS6K1 alpha; rps6ka; Rps6ka1; RSK 1; RSK 1 p90; RSK; RSK-1; RSK1; S6K alpha 1; S6K-alpha-1;
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 (CCl4). 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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	90 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.