

Datasheet for ABIN7168180
anti-RPS6KA3 antibody (AA 214-431)

2 Images

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Overview

Quantity:	100 µg
Target:	RPS6KA3
Binding Specificity:	AA 214-431
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Ribosomal protein S6 kinase alpha-3 protein (214-431AA)
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	RPS6KA3
Alternative Name:	RPS6KA3 (RPS6KA3 Products)
Background:	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 (CCl4). 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. In LPS-stimulated dendritic cells, is involved in TLR4-induced macropinocytosis, and in myeloma cells, acts as effector of FGFR3-mediated transformation signaling, after direct phosphorylation at Tyr-529 by FGFR3. Negatively regulates EGF-induced MAPK1/3 phosphorylation via phosphorylation of SOS1. Phosphorylates SOS1 at '\Ser-1134' and '\Ser-1161' that create YWHAB and YWHAE binding sites and which contribute to the negative regulation of MAPK1/3 phosphorylation (By similarity). Phosphorylates EPHA2 at '\Ser-897', the RPS6KA-EPHA2 signaling pathway controls cell migration (PubMed:26158630).

Aliases: 90 kDa ribosomal protein S6 kinase 3 antibody, CLS antibody, HU 3 antibody, HU2 antibody, HU3 antibody, Insulin stimulated protein kinase 1 antibody, Insulin-stimulated protein kinase 1 antibody, ISPK-1 antibody, ISPK1 antibody, KS6A3_HUMAN antibody, MAP kinase activated protein kinase 1b antibody, MAP kinase-activated protein kinase 1b antibody, MAPK activated protein kinase 1b antibody, MAPK-activated protein kinase 1b antibody, MAPKAP kinase 1b antibody, MAPKAPK 1b antibody, MAPKAPK-1b antibody, MAPKAPK1B antibody, Mental retardation, X linked 19 antibody, MRX19 antibody, OTTHUMP00000023036 antibody, p90 RSK2 antibody, p90 RSK3 antibody, p90-RSK 3 antibody, p90RSK3 antibody, pp90RSK2 antibody, Ribosomal protein S6 kinase 90 kDa polypeptide 3 antibody, Ribosomal protein S6

Target Details

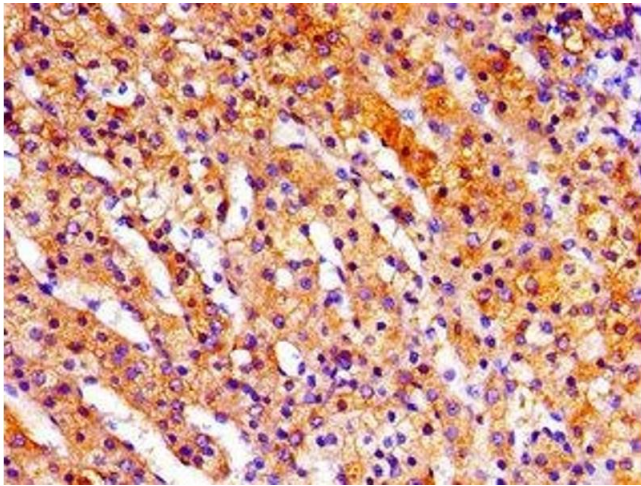
	kinase alpha 3 antibody, Ribosomal protein S6 kinase alpha-3 antibody, Ribosomal protein s6 kinase ii alpha 2 antibody, Ribosomal S6 kinase 2 antibody, Rps6ka3 antibody, RSK antibody, RSK-2 antibody, RSK2 antibody, S6 kinase 2 antibody, S6K alpha3 antibody, S6K-alpha-3 antibody
UniProt:	P51812
Pathways:	MAPK Signaling , Neurotrophin Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200,
Restrictions:	For Research Use only

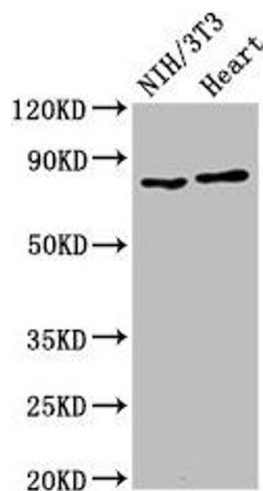
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human adrenal gland tissue using ABIN7168180 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: NIH/3T3 whole cell lysate, Rat heart tissue All lanes: RPS6KA3 antibody at 2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 84 kDa Observed band size: 84 kDa