

Datasheet for ABIN3032481

anti-RPS6KB1 antibody (AA 425-454)[Go to Product page](#)**5** Images

Overview

Quantity:	0.2 mL
Target:	RPS6KB1
Binding Specificity:	AA 425-454
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPS6KB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A portion of amino acids 425-454 from human RPS6KB1 was used as the immunogen for this p70S6K antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Bovine, Mouse, Rabbit, Rat
Purification:	Antigen affinity purified

Target Details

Target:	RPS6KB1
Alternative Name:	p70S6K (RPS6KB1 Products)
Background:	RPS6KB1 is a serine/threonine-protein kinase that acts downstream of mTOR signaling in

Target Details

response to growth factors and nutrients to promote cell proliferation, cell growth and cell cycle progression. Regulates protein synthesis through phosphorylation of EIF4B, RPS6 and EEF2K, and contributes to cell survival by repressing the pro-apoptotic function of BAD. Under conditions of nutrient depletion, the inactive form associates with the EIF3 translation initiation complex. Upon mitogenic stimulation, phosphorylation by the mammalian target of rapamycin complex 1 (mTORC1) leads to dissociation from the EIF3 complex and activation. The active form then phosphorylates and activates several substrates in the pre-initiation complex, including the EIF2B complex and the cap-binding complex component EIF4B. [UniProt]

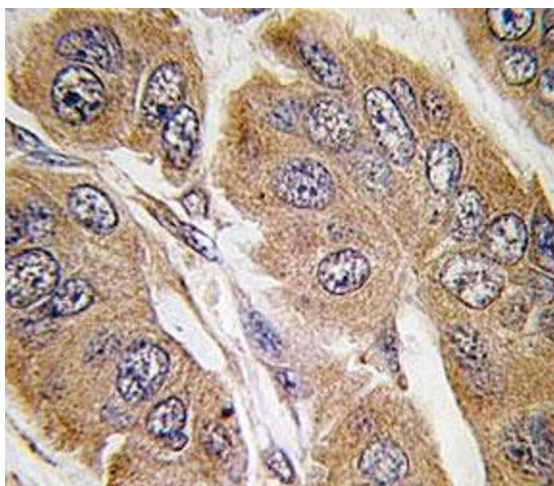
UniProt:	P23443
Pathways:	PI3K-Akt Signaling , RTK Signaling , AMPK Signaling , Regulation of Cell Size , Skeletal Muscle Fiber Development , Feeding Behaviour , G-protein mediated Events , Smooth Muscle Cell Migration , Interaction of EGFR with phospholipase C-gamma , Warburg Effect

Application Details

Application Notes:	The stated application concentrations are suggested starting amounts. Titration of the p70S6K antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50
Restrictions:	For Research Use only

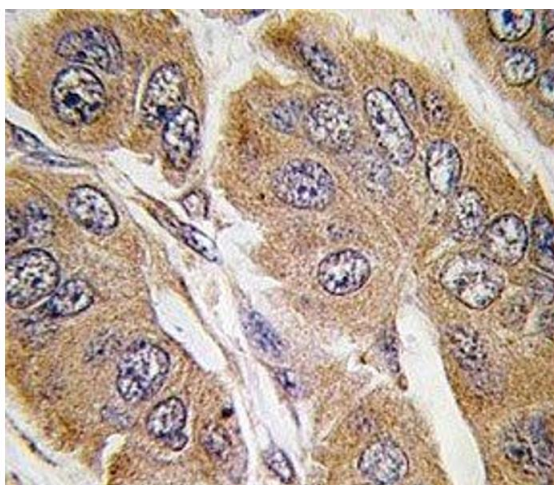
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
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:	Aliquot the p70S6K antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



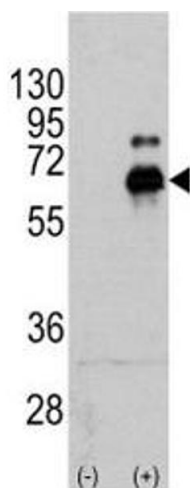
Immunohistochemistry

Image 1. IHC analysis of FFPE human breast carcinoma tissue stained with p70S6K antibody



Immunohistochemistry

Image 2. IHC analysis of FFPE human breast carcinoma tissue stained with p70S6K antibody



Western Blotting

Image 3. Western blot analysis of p70S6K antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the RPS6KB1 gene (2).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3032481.