ABCLONAL BIOTECHNOLOGY,INC.

S6 Ribosomal Protein Rabbit pab Antibody

Anti S6 Ribosomal Protein antibody

Catalog Number:	A0932	**Quantity:**	100ul
Lot Number:	A00009	**Species:**	Rabbit
Gene ID:	6194	**Swiss Prot:**	P62753

DESCRIPTION

Description Rabbit polyclonal to Human S6 Ribosomal Protein
Species Rabbit
Applications WB IHC FC
Reactivity H
Immunogen A synthetic peptide of human S6 Ribosomal Protein
Other Name 40S ribosomal protein S6;RPS6;

PROPERTIES

Form Liquid
Storage instructions Upon delivery aliquot and store at -20ºC or -80ºC.
Storage buffer PBS with 0.1% Sodium Azide, 50% Glycerol,
Purity Affinity purification
Clonality Polyclonal
Isotype IgG

APPLICATION

WB WB :1/200-500
IHC IHC:1/50-100
FC FC:1/10-50

BACKGROUND

One way that growth factors and mitogens effectively promote sustained cell growth and proliferation is by upregulating mRNA translation (1,2). Growth factors and mitogens induce the activation of p70 S6 kinase and the subsequent phosphorylation of the S6 ribosomal protein. Phosphorylation of S6 ribosomal protein correlates with an increase in translation of mRNA transcripts that contain an oligopyrimidine tract in their 5' untranslated regions (2). These particular mRNA transcripts (5'TOP) encode proteins involved in cell cycle progression as well as ribosomal proteins and elongation factors necessary for translation (2,3). Important S6 ribosomal protein phosphorylation sites include several residues (Ser235, Ser236, Ser240, and Ser244) located within a small, carboxy-terminal region of the S6 protein (4,5).

1. Dufner, A. and Thomas, G. (1999) *Exp. Cell Res.* 253, 100-109.
2. Peterson, R.T. and Schreiber, S.L. (1998) *Curr. Biol.* 8, R248-R250.
3. Jefferies, H.B. et al. (1997) *EMBO J.* 16, 3693-3704.
4. Ferrari, S. et al. (1991) *J. Biol. Chem.* 266, 22770-22775.
5. Flotow, H. and Thomas, G. (1992) *J. Biol. Chem.* 267, 3074-3078.