Data Sheet (Cat.No.TMAC-03262)

Anti-Phospho-RPS6KA1 (Ser380) Antibody (2P405)

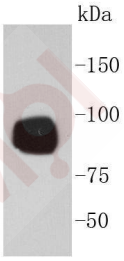
Product Details

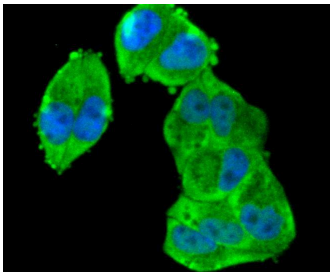
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 90 kDa.
Clone:	2P405
Purification:	ProA affinity purified

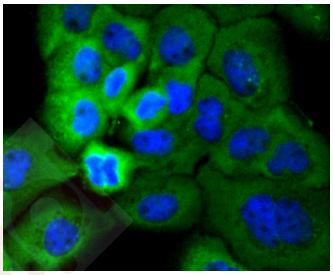
Applications

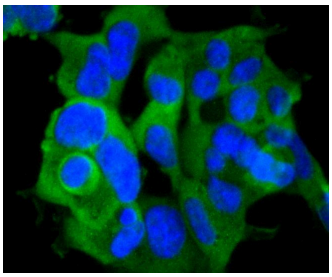
Verified Activity:

1. Western blot analysis of Phospho-RSK1 (S380) on A431 cell lysates using anti-Phospho-RSK1 (S380) antibody at 1/1,000 dilution.
2. ICC staining Phospho-RSK1 (S380) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining Phospho-RSK1 (S380) in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining Phospho-RSK1 (S380) in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.









Application:	ICC/IF,IP,WB
Recommended	WB: 1:1000-5000; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized phosphopeptide: human RSK1 around the phosphorylation site of Ser380
Antigen Species:	Human
Uniprot ID:	Q15418
Synonyms:	Ribosomal protein S6 kinase alpha 1;RSK 1;Mitogen-activated protein kinase-activated protein kinase 1A;Ribosomal S6 kinase 1;Phospho-RPS6KA1 (S380);pp90RSK1;RSK;HU 1;polypeptide 1; HU1;EC 2.7.11.1;rps6ka;MGC79981;S6K-alpha-1;RSK1;90 kDa ribosomal protein S6 kinase 1; RPS6KA1 (p-Ser380);dJ590P13.1;Ribosomal protein S6 kinase 90kD polypeptide 1;MAPKAPK-1a; MAPKAP kinase 1a;p-RPS6KA1 (S380);MAPKAPK1A;MAP kinase activated protein kinase 1a; 90kD;RPS6KA1 (p-S380);KS6A1_HUMAN;RSK1p90;RPS6K1 alpha;ribosomal protein S6 kinase; p90S6K;p90 RSK1;p90RSK1;p-RPS6KA1 (Ser380);RSK 1 p90;S6K alpha 1;OTTHUMP00000004113; Ribosomal protein S6 kinase polypeptide 1

Research Background

The family of ribosomal S6 kinases (Rsks), designated Rsk-1, Rsk-2 and Rsk-3, are important signaling intermediates that mediate responses to a broad range of ligand-activated receptor tyrosine kinases. It has been established that Rsk-3 is not activated by MAP kinase in vitro, unlike Rsk-1 and Rsk-2. A unique feature common to the three members of the Rsk family is that each possesses two non-identical complete kinase catalytic domains. The Rsk family amino-terminal kinase domain is phosphorylated on Ser 227 by 3-phosphoinositide-dependent protein kinase-1 (PDK1), which increases the kinase activity of Rsk. In the carboxy-terminal kinase domain, Rsk-1 and Rsk-2 are autophosphorylated on Ser 380 and Ser 386, respectively, which mediates the docking of PDK1 to Rsk in order to promote phosphorylation of substrates, such as histone H3.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481