Anti-RPS6 Antibody [A6B8-R] - BSA and Azide free

HA610196

Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 29 kDa
Clone number:	A6B8-R

Description: Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. It is the major substrate of protein kinases in the ribosome, with subsets of five C-terminal serine residues phosphorylated by different protein kinases. Phosphorylation is induced by a wide range of stimuli, including growth factors, tumor-promoting agents, and mitogens. Dephosphorylation occurs at growth arrest. The protein may contribute to the control of cell growth and proliferation through the selective translation of particular classes of mRNA. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

Immunogen: Recombinant protein within human RPS6 aa 1-150.

Positive control: HeLa cell lysate, MCF7 cell lysate, HepG2 cell lysate, HEK-293 cell lysate, HCT 116 cell lysate, THP-1 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate.

Subcellular location: Cytosol, Endoplasmic reticulum, Nucleus.

Database links: SwissProt: P62753 Human | P62754 Mouse | P62755 Rat

Recommended Dilutions:

WB	1:1,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

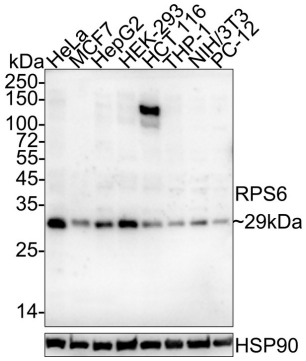

Fig1: Western blot analysis of RPS6 on different lysates with Mouse anti-RPS6 antibody (HA610196) at 1/1,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: MCF7 cell lysate
Lane 3: HepG2 cell lysate
Lane 4: HEK-293 cell lysate
Lane 5: HCT 116 cell lysate
Lane 6: THP-1 cell lysate
Lane 7: NIH/3T3 cell lysate
Lane 8: PC-12 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 29 kDa
Observed band size: 29 kDa

Exposure time: 1 minute 22 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610196) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Background References

1. Yan M. et. al. mTORC1/rpS6 signaling complex modifies BTB transport function: an in vivo study using the adjudin model. Am J Physiol Endocrinol Metab. 2019 Jul
2. Wu S. et. al. mTORC1/rpS6 and spermatogenic function in the testis-insights from the adjudin model. Reprod Toxicol. 2019 Oct