

ABfinity™ RPS6 Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 710405

Pub. No. MAN0007539 Rev. 1.00

Clonality: Oligoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human RPS6	Predicted Reactivity: Human	

Product Description

Ribosomal protein 6 (RPS6) is a component of the 40S ribosomal subunit belonging to S6E family of ribosomal proteins. RPS6 is found in the cytoplasm, and it mediates translation initiation at the 5'-m7GpppG cap of mRNA. It is a key substrate for protein kinases, and is phosphorylated by growth factors and mitogens during cell growth and cell division.

Product Specifications

Immunogen:	Folded protein domain corresponding to amino acids of Human RPS6
Apparent MW:	~ 31 kDa
Gene ID:	6194
Protein Accession No.:	P62753
Sequence Identity:	Human
Isotype:	IgG ₁
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa, A431, HepG2, Jurkat, HEK293, MCF-7, and PC12 cells	1–2 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL
Immunocytochemistry	Human	HeLa cells	0.5 µg/mL
Flow cytometry	Human	HeLa cells	1 µg/mL for 1 × 10 ⁻⁶ cells

Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

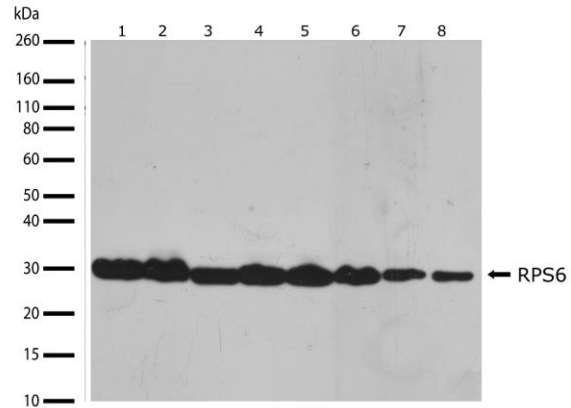


Figure 1 Western blot analysis of ABfinity™ RPS6 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710405).

Western blot analysis was performed on HeLa (with and without TNF alpha treatment), A431, HepG2, Jurkat, HEK293, MCF-7, and PC12 whole cell extracts (lanes 1–8 respectively). Endogenous level of RPS6 was detected at ~31 kDa using ABfinity™ RPS6 Recombinant Rabbit Oligoclonal Antibody at a concentration of 1 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at www.lifetechnologies.com/support.

Limited product warranty

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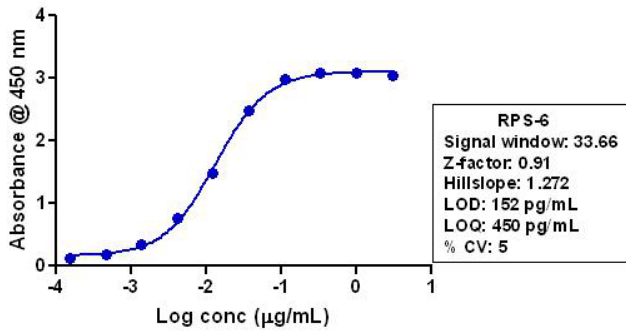


Figure 2 Indirect ELISA of ABfinity™ RPS6 Recombinant Rabbit Oligoelonal Antibody (Cat. no. 710405).

Indirect ELISA was performed using various dilutions of ABfinity™ RPS6 Recombinant Rabbit Oligoelonal Antibody to detect RPS6 recombinant protein coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

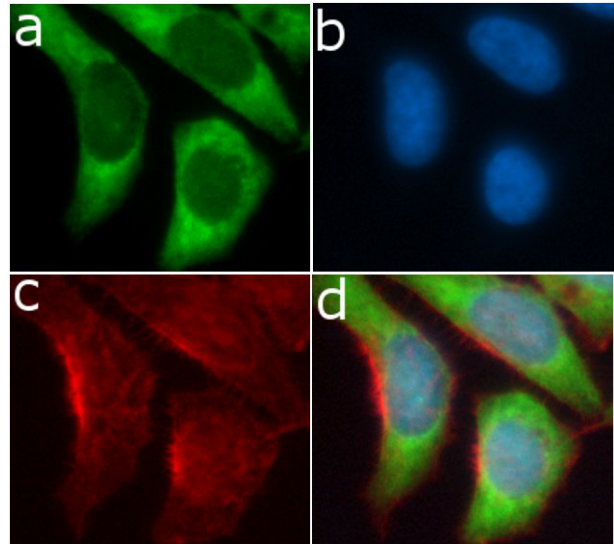


Figure 3 Immunocytochemistry analysis of ABfinity™ RPS6 Recombinant Rabbit Oligoelonal Antibody (Cat. no. 710405).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ RPS6 Recombinant Rabbit Oligoelonal Antibody using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained HeLa nuclei (blue). **c**: Actin stained with Alexa Fluor® 594 phalloidin (red). **d**: Composite image of cells showing cytoplasmic localization of RPS6.

Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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