

# ABfinity™ RPS6 Recombinant Rabbit Monoclonal Antibody

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

Catalog Number 701374

Pub. No. MAN0007676 Rev. 1.00

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

<b>Immunogen:</b>	Recombinant protein corresponding to amino acids 2–249 of human RPS6.
<b>Apparent MW:</b>	~31 kDa
<b>Gene ID:</b>	6194
<b>Protein Accession No.:</b>	P62753
<b>Sequence Identity:</b>	Human
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Lot:</b>	See product label

## Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	Jurkat, HeLa, A431, and HepG2 cells	1–2 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 <sup>-4</sup> to 3 µg/mL
Immunocytochemistry	Human	U2OS cells	0.5 µg/mL
Flow cytometry	Human	HeLa cells	1 µg/mL for 1 × 10 <sup>-6</sup> 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.

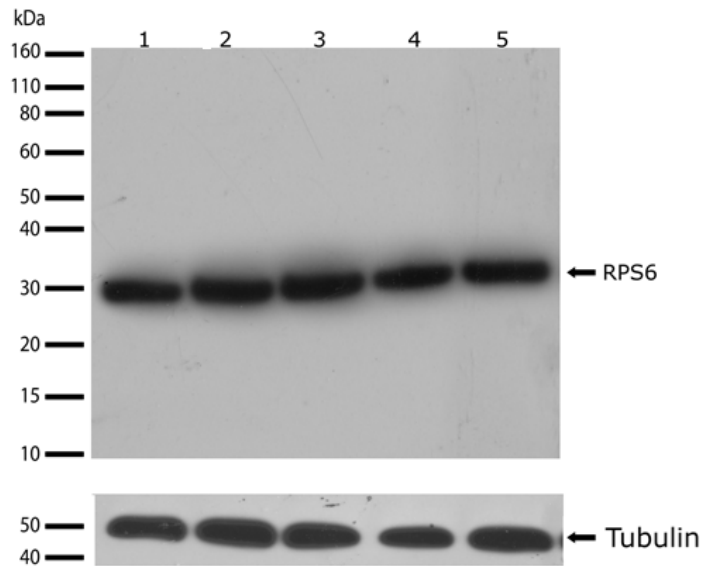


Figure 1 Western blot analysis of ABfinity™ RPS6 Recombinant Rabbit Monoclonal Antibody [Cat. no. 701374].

Western blot analysis was performed on whole cell extracts from Jurkat, HeLa (+TNF $\alpha$ ), HeLa (no TNF $\alpha$ ), A431, and HepG2 cells (lanes 1–5 respectively). Endogenous level of RPS6 detected at ~31 kDa using ABfinity™ RPS6 Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL. Tubulin was used as a loading control and detected with an anti-tubulin antibody (Sigma Cat. no. T9026). 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](http://www.lifetechnologies.com/support).

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

## Limited product warranty

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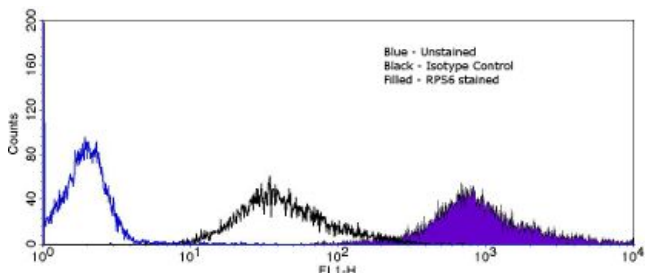


Figure 2 Flow cytometry analysis of ABfinity™ RPS6 Recombinant Rabbit Monoclonal Antibody [Cat. no. 701374].

Fixed and permeabilized HeLa cells were labelled with ABfinity™ RPS6 Recombinant Rabbit Monoclonal Antibody, followed by Alexa Fluor® goat anti Rabbit IgG staining (right peak, filled). To confirm specificity, the cells were labeled with an isotype control and stained using Alexa Fluor® 488 goat anti-rabbit IgG (middle peak, black), unstained control cells (left peak, blue).

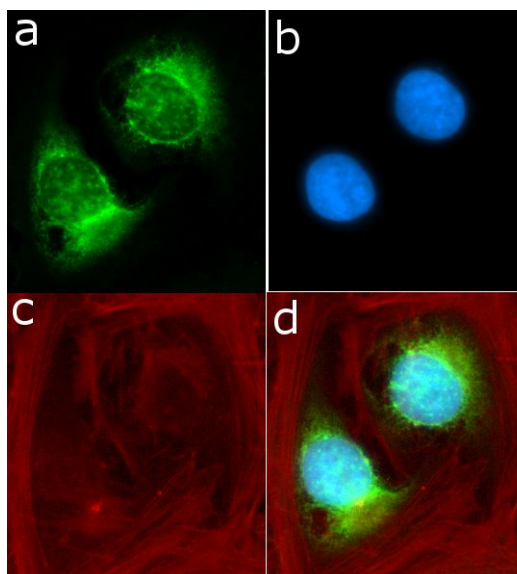


Figure 3 Immunocytochemistry analysis of RPS6 ABfinity™ Recombinant Rabbit Monoclonal Antibody [Cat. no. 701374].

Immunocytochemistry analysis of U2OS cells stained with RPS6 ABfinity™ Recombinant Rabbit Monoclonal Antibody using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained U2OS 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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