

# ABfinity™ RAB4 Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number 710543

Pub. No. MAN0008345 Rev. 1.00

<b>Clonality:</b> Oligoclonal	<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	<b>Predicted Reactivity:</b> Human RAB4	

## Product description

RAB4 is a GTPase belonging to the Ras superfamily which functions in both endocytotic and exocytotic pathways, and is regulated by GTP-GDP exchange cycles. In organelle membranes, RAB4 molecules are highly compartmentalized and functions as a key regulator for sorting and recycling of the membrane and proteins. RAB4 is present on all endosome populations.

## Product specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 193–206 of human RAB4
<b>Apparent MW:</b>	~24 kDa
<b>Gene ID:</b>	5867
<b>Synonyms:</b>	RAB4A
<b>Protein Accession No.:</b>	P20338
<b>Sequence Identity:</b>	Human
<b>Sequence Homology:</b>	Monkey, Cat, Dog, Sheep, Bovine, Rat, Rabbit, Mouse, Horse
<b>Clone:</b>	14HCLC
<b>Isotype:</b>	IgG
<b>Lot:</b>	See product label

## Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	MCF7, SH-SY5Y, Cos-7 cells	2 µg/mL
ELISA	Human	Peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL

## 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.

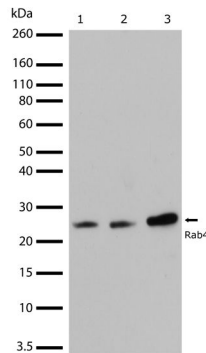


Figure 1 Western blot analysis of ABfinity™ RAB4 Recombinant Rabbit Oligoclonal Antibody [Cat. no. 710543].

Western blot analysis was performed on whole cell extracts of MCF7, SH-SY5Y, and Cos-7 cells (Lanes 1–3 respectively). Endogenous level of RAB4 was detected at ~24 kDa using ABfinity™ RAB4 Oligoclonal Antibody at a concentration of 2 µg/mL, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) as a secondary antibody. 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>.

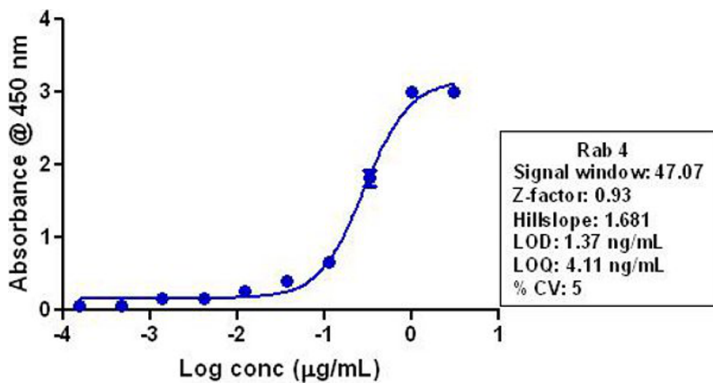


Figure 2 Indirect ELISA of RAB4 ABfinity™ Recombinant Rabbit Oligoelonal Antibody (Cat. no. 710543).

Indirect ELISA was performed to detect various dilutions of ABfinity™ RAB4 Recombinant Rabbit Oligoelonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234), to detect RAB4 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

## Limited product warranty

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## 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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