

# ABfinity™ MEK1 Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number 710446

Pub. No. MAN0007781 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 MEK1	

## Product description

MEK1 (MAPK/ERK kinase 1) is a dual specificity protein kinase which plays an active role in biological functions such as cell growth, survival, and differentiation. It is also involved in cell adhesion, endosomal dynamics, lysosome processing, and fragmentation of Golgi apparatus. MEK1 lies upstream of MAP kinases, and integrates signals from intra- and extracellular sources. It is involved in various receptor signaling pathways including Toll, EGF, FGF, Insulin, and NGF.

## Product specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 31–50 of human MEK1
<b>Alternate Names:</b>	MEK1, PRKMK1, MAP2K1
<b>Apparent MW:</b>	~45 kDa
<b>Gene ID:</b>	5604
<b>Protein Accession No.:</b>	Q02750
<b>Sequence Identity:</b>	Human
<b>Isotype:</b>	IgG
<b>Lot:</b>	See product label

## Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	U2OS cells	1–2 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL
Immunocytochemistry	Human	HeLa cells	1–2 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.

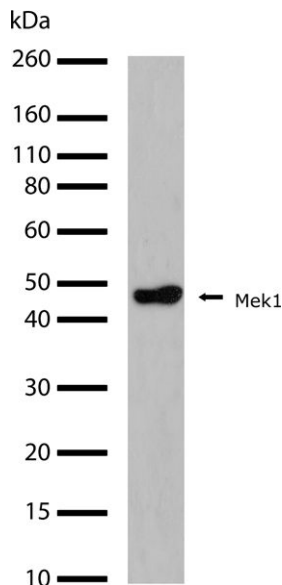


Figure 1 Western blot analysis of ABfinity™ MEK1 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710446).

Western blot analysis was performed on whole cell extracts from U2OS. Endogenous level of MEK1 was detected at ~45 kDa using ABfinity™ MEK1 Recombinant Rabbit Oligoclonal Antibody at a concentration of 1 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>.

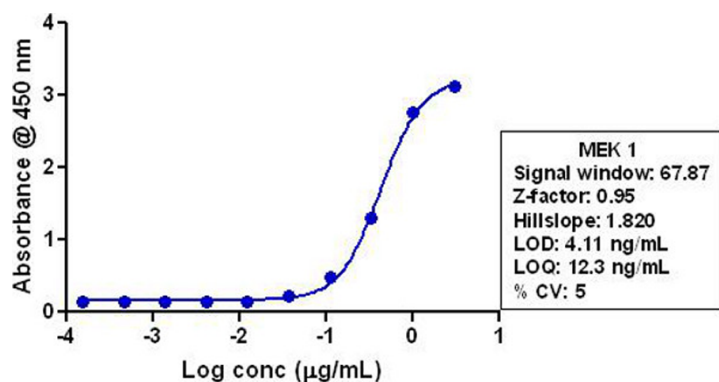


Figure 2 Indirect ELISA of ABfinity™ MEK1 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710446).

Indirect ELISA was performed to detect various dilutions of ABfinity™ MEK1 Recombinant Rabbit Oligoclonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234), to detect MEK1 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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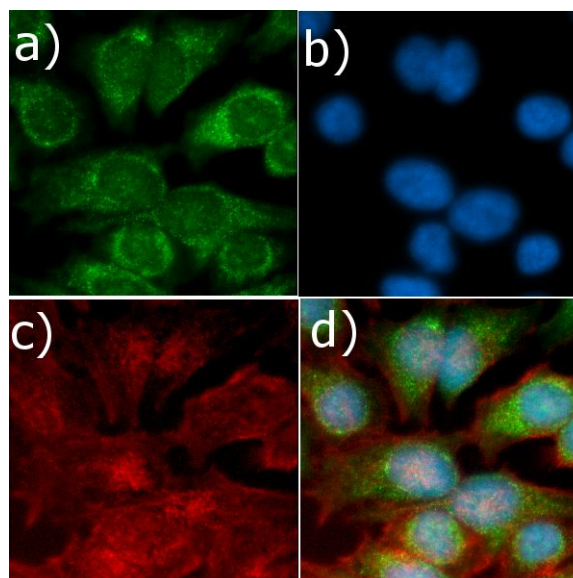


Figure 3 Immunocytochemistry analysis of ABfinity™ MEK1 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710446).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ MEK1 Recombinant Rabbit Oligoclonal 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 and nuclear localization of MEK1.

## 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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