

MEK2 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700829

(See product label for lot information)



Clone/PAD: B19H36L8
Isotype: IgG
Gene ID: 5605
Protein Acc. no.: P36507
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Validation

Validated for use in WB and IF

Immunogen

recombinant protein

Reactivity

human

Expected Reactivity

Based on sequence identity and similarity, reactivity to mouse, chicken, bovine, and rat is expected.

Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

MEK2 belongs to the family of mitogen-activated protein kinase kinases that phosphorylate threonine and tyrosine residues within the activation loop of their MAP kinase substrates (2). The ERK1/2 MAP kinase signaling pathway is an integral part of cell proliferation control and is frequently activated in human colorectal cancer (3). Activation of MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 217 and 221 and is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx (1, 2).

References

1. Cowley S et al. Activation of MAP kinase kinase is necessary and sufficient for PC12 differentiation and for transformation of NIH 3T3 cells. *Cell*, 1994; 77: 841-52.
2. Fremin C et al. From basic research to clinical development of MEK1/2 inhibitors for cancer therapy. *J Hematol Oncol*, 2010; 3: 8.
3. Voisin L et al. . Activation of MEK1 or MEK2 isoform is sufficient to fully transform intestinal epithelial cells and induce the formation of metastatic tumors. *BMC Cancer*. 2008; 8: 337.

Applications:

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

	Species	Test Material	Concentration
Western Blotting	human	HeLa	0.5-2 µg/ml
Immunofluorescence	human	HeLa	5 µg/ml

Explanation of symbols

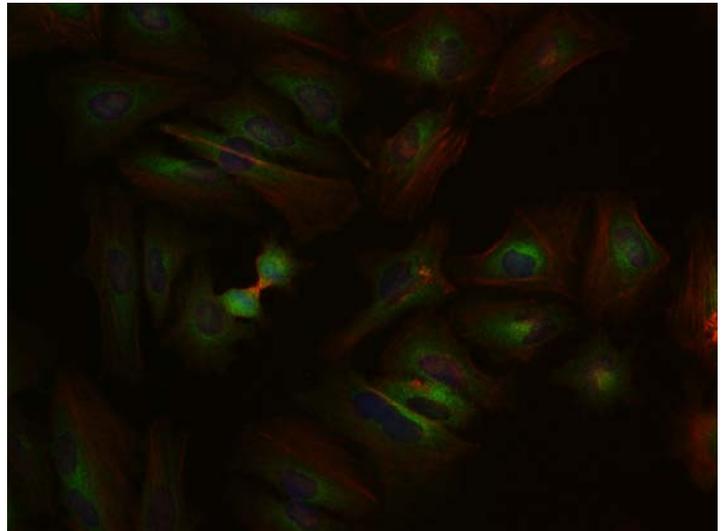
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

For Research Use Only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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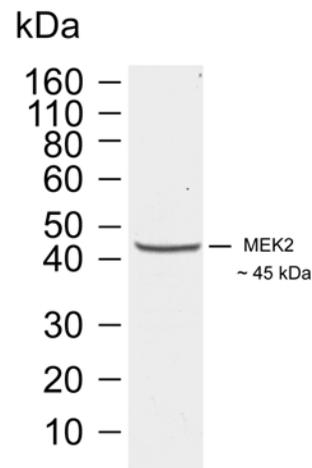
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Immunocytochemistry of HeLa cells labeled with rabbit anti-MEK2 (Cat. No. 700829).

HeLa cells were labeled with rabbit anti-MEK2 (10 µg/ml). Alexa Fluor® 488 goat anti-rabbit (Cat. No. A11008) at 1:1000 was used as secondary antibody, cells were counterstained with Alexa Fluor® 568 Phalloidin (Cat. No. A12380) and treated with SlowFade® Gold with DAPI (S36936) before imaging.



Western blot of HeLa cell lysate labeled with rabbit anti-MEK2 (Cat. No. 700829).

Rabbit anti-MEK2 was used to at 0.5 µg/ml to detect MEK2 in HeLa cell lysate (30 µg/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).

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