Datasheet for ABIN726500

anti-MEK2 antibody (AA 1-50)

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Overview

Quantity:	100 µL
Target:	MEK2 (MAP2K2)
Binding Specificity:	AA 1-50
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MAPKK2/MEK2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	MEK2 (MAP2K2)

Target Details

Alternative Name:	MEK2 (MAP2K2 Products)
Background:	Synonyms: CFC4, MEK2, MKK2, MAPKK2, PRKMK2, Dual specificity mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK 2, MAP2K2 Background: Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity).
Gene ID:	5605
UniProt:	P36507
Pathways:	MAPK Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades, Signaling of Hepatocyte Growth Factor Receptor, BCR Signaling

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

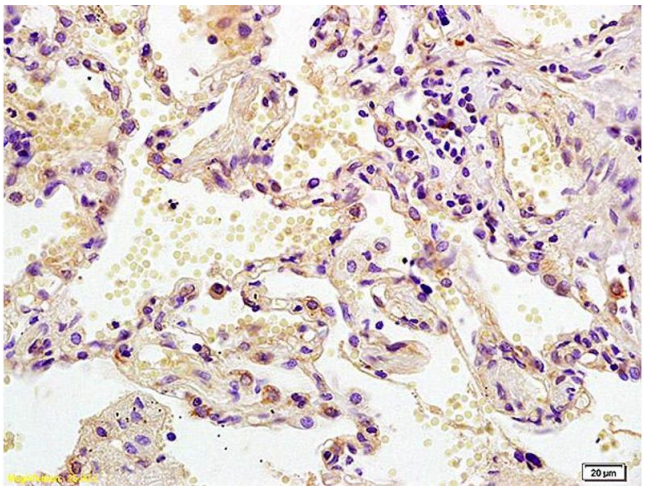
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

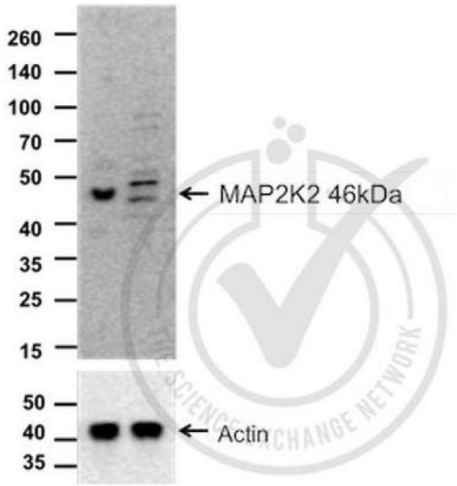
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



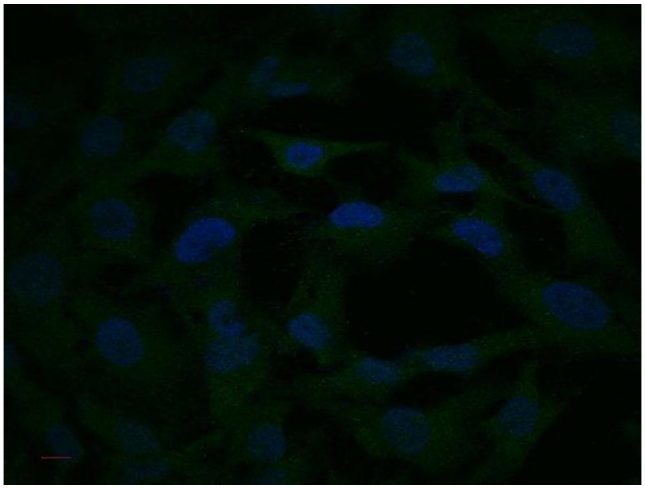
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti MEK2/MAPKK2 Polyclonal Antibody, Unconjugated (ABIN726500) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Western Blotting

Image 2. Images provided by the Independent Validation Program, badge number 029748. Lane one: HeLa cell lysates. Lane 2: c6/36 Mosquito cell extract (non-reactivespecies) probed with Rabbit Anti-MEK2 Polyclonal Antibody, Unconjugated at 1:100 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:20000 for 60 min at 26˚C.



Immunofluorescence (Cultured Cells)

Image 3. HT-55 cells were stained with bs-0223R Rabbit Anti-MEK2 Polyclonal Antibody at 1:250. Followed by Goat Anti-Rabbit antibody conjugated to Alexa fluor 488 at 1:500 dilution.

Successfully validated (Western Blotting (WB))

by Alamo Laboratories Inc

Report Number: 029748

Date: Jul 02 2014

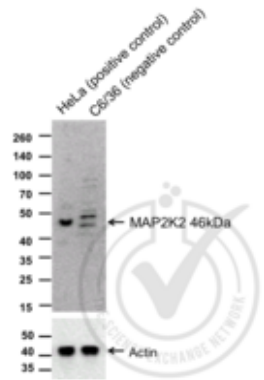
Lot Number:	110511
Method validated:	Western Blotting (WB)
Positive Control:	Hela cell extract
Negative Control:	c6/36 Mosquito cell extract (non-reactive species)
Notes:	A single positive band at the correct molecular weight was detected in positive control HeLa cell extract. Several bands were observed in the non-reactive species negative control at approximately the same molecular weight as MAP2K2. These bands may constitute cross-reactivity of the target antigen, or they may be non-specific bands.
Primary Antibody:	- Antigen: Mitogen-Activated Protein Kinase Kinase 2 (MAP2K2) (1:150 dilution) - Catalog number: ABIN726500 - Supplier: Bioss - Supplier catalog number: bs-0223R - Lot number: 110511
Secondary Antibody:	- Antibody: Goat Anti-Rabbit IgG (H + L)-HRP Conjugate (1:20,000 dilution) - Supplier: Bio-Rad - Catalog number: #170-6515 - Lot number: L170-6515
Controls:	• Positive control: HeLa cell extract • Negative control: c6/36 Mosquito cell extract
Protocol:	• 1. Total protein extracts were boiled in 1X SDS Sample Buffer containing 1% SDS and 1.25% β-mercaptoethanol at 95°C for 5 min prior to loading. • 2. 46 µg of boiled extracts were loaded and resolved on 8-16% SDS-polyacrylamide gel. • 3. The Thermo Scientific - Spectra Multicolor Broad Range (Cat # 26634) were used as molecular mass markers. • 4. Proteins were then transferred onto PVDF membrane by wet transfer and protein transfer was confirmed with Ponceau-S staining. • 5. The PVDF membrane was incubated with 25 mL of blocking buffer [Tris Buffered Saline, pH 7.4 plus 0.1% TW20 (TBST)] containing 5% (W/V) non-fat dry milk at room temperature for 1 h. • 6. The membrane was rinsed with TBST once. • 7. The membrane was immersed with the protein side up in the primary antibody solution (anti-MAP2K2; 1:150) in TBST containing 5% (W/V) non-fat dry milk and incubated for 16 h at

4°C.

- 8. The membrane was rinsed in TBST thrice for 5 min each.
- 9. The membrane was incubated in the HRP-conjugated secondary antibody solution (Goat anti-rabbit IgG-HRP; 1:20,000) in TBST containing 5% (W/V) non-fat dry milk and incubated for 1 h at room temperature (~26°C) with gentle agitation.
- 10. The membrane was rinsed thrice TBST thrice for 5 min each.
- 11. The membrane was rinsed in TBS twice for 30 s each.
- 12. Signals were detected with ECL-2 Substrate. The blot was scanned for 300 s.
- 13. The membrane was rinsed three times TBST.
- 14. Incubated in Acidic Glycine Stripping Buffer at room temperature with gentle agitation for 3 times, 10 min each.
- 15. The membrane was washed in TBST 2 times for 10 min each.
- 16. Repeated Steps 5-12 with the loading control antibody (anti-Actin; 1:6,000) and its matching secondary antibody (Goat anti-rabbit IgG-HRP; 1:20,000).

Experimental Notes:	- No challenges noted.

Image for Validation report #029748



Validation image no. 1 for anti-Mitogen-Activated Protein Kinase Kinase 2 (MAP2K2) (AA 1-50) antibody (ABIN726500)

Figure 1. Western blot of lysates from HeLa cells (Lane 1) and c6/36 cells (Lane 2) probed with anti-MAP2K2 (upper panel) or with anti-Actin for loading control (lower panel).