

## Technical Data Sheet

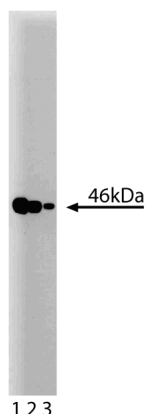
**Purified Mouse Anti-MEK2****Product Information**

<b>Material Number:</b>	<b>610235</b>
<b>Alternate Name:</b>	MAP Kinase Kinase 2; ERK Kinase
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	96/MEK2
<b>Immunogen:</b>	Rat MEK2 aa. 1-110
<b>Isotype:</b>	Mouse IgG2a
<b>Reactivity:</b>	QC Testing: Mouse Tested in Development: Chicken, Dog, Frog, Human, Rat
<b>Target MW:</b>	46 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

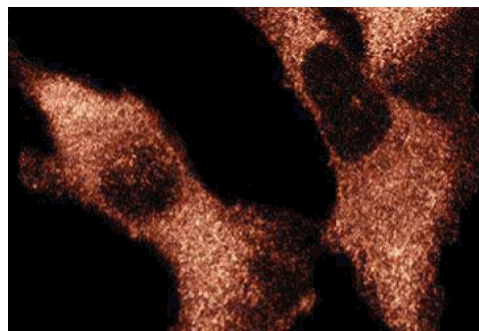
**Description**

MEK2 (MAP Kinase Kinase 2 or ERK Kinase), a 46 kDa protein kinase, phosphorylates MAP kinases (ERKs) at tyrosine and threonine residues. This phosphorylation results in activation of the MAP kinases. MEK2 is seven amino acids larger and shares 81% identity with MEK1. In cultured cells, MEK2 is activated by serum. In vitro, v-Raf phosphorylates and activates MEK2. It is thought that all of these activated protein kinases are downstream of the Ras signal transduction pathway and represent an integral part of the Ras mitogenic signal.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



**Western blot analysis of MEK2 on a RSV-3T3 cell lysate.** Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of the anti-MEK2 antibody.



**Immunofluorescence staining of human fibroblasts.**

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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## Application Notes

### Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Tested During Development
Immunohistochemistry-formalin (antigen retrieval required)	Not Recommended

## Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

Crews CM, Alessandrini A, Erikson RL. The primary structure of MEK, a protein kinase that phosphorylates the ERK gene product. *Science*. 1992; 258(5081):478-480.(Biology)

Downey GP, Butler JR, Tapper H, et al. Importance of MEK in neutrophil microbicidal responsiveness. *J Immunol*. 1998; 160(1):434-443.(Biology: Immunoprecipitation)

Hattori S, Fukuda M, Yamashita T, Nakamura S, Gotoh Y, Nishida E. Activation of mitogen-activated protein kinase and its activator by ras in intact cells and in a cell-free system. *J Biol Chem*. 1992; 267(28):20346-20351.(Biology)

Tworowski KA, Salghetti SE, Tansey WP. Stable and unstable pools of Myc protein exist in human cells. *Oncogene*. 2002; 21(55):8515-8520.(Biology: Western blot)

Wu J, Harrison JK, Dent P, Lynch KR, Weber MJ, Sturgill TW. Identification and characterization of a new mammalian mitogen-activated protein kinase kinase, MKK2. *Mol Cell Biol*. 1993; 13(8):4539-4548.(Biology)