

## Mouse Monoclonal Antibody to

# MKK3/MAP2K3 (N-terminus)

## clone 5F7

**Order No.:** 0166-100/MKK3-5F7

**Size (µg)** 100

**Lot No.:** 0166S



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Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, ELISA	40 kDa	A431	N-terminus	peptide conjugated to KLH

### Background and Specificity:

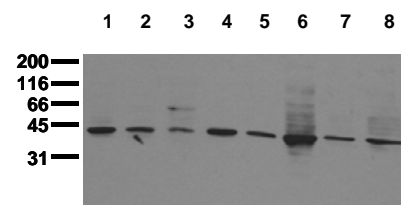
MKK3 activates p38 MAP kinase by phosphorylating a Thr and Tyr residue in the activation loop. MKK3 does not phosphorylate and activate the other major MAP kinases, MAPK1/2 (erk1/2) or SAPK/JNK. Cellular stress and inflammatory cytokines activate MKK3 and lead to phosphorylation of Ser 189 and Thr 193.

Mab MKK3-5F7 specifically recognizes the N-terminus of MKK3.

### Related Products

- mab to MAPK 1/2 (pT-E-pY)**  
#0012-100/MAPK-12D4
- mab to MAPK 2 (C-terminus)**  
#0011-100/MAPK2-6G11
- mab to MAPK 2 (N-terminus)**  
#0178-100/MAPK2-6H3
- mab to MAPK 2 (internal sequence)**  
#0239-100/MAPK2-12A4
- mab to MEK1 (N-terminus)**  
#0186-100/MEK1-10B1
- mab to MEK1 (pS218/222)**
- mab to MEK2 (pS222/226)**  
#0174-100/MEK1/2-7E10
- mab to MEK1/2**  
#0150-100/MEK1/2-9G3
- mab to MEK2 (N-terminus)**  
#0148-100/MEK2-8E8
- mab to MKK5 (N-terminus)**  
#0224-100/MKK5-14B5
- mab to MKK7 (N-terminus)**  
#0189-100/MKK7-10F7
- mab to Fos (pS374)**  
#0118-100/Fos-34E4
- mab to Fos (N-terminus)**  
#0122-100/Fos-8B5
- mab to C-Raf (pS621)**  
#0102-100/C-Raf-6B4
- mab to C-Raf**  
#0120-100/C-Raf-PBB-1

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
<b>Reconstitution:</b>	Reconstitute with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Stability:</b>	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.  <b>Avoid repeated freeze / thaw cycles.</b>
<b>Positive Control:</b>	#0831: Cell lysate from untreated A431 cells
<b>Immunoblotting:</b>	0.5 µg/ml for HRPO/ECL detection <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
<b>Immunoprecipitation:</b>	ND
<b>Immunocytochemistry:</b>	ND
<b>ELISA:</b>	use at 0.05 µg/ml



**Detection of endogenous MKK3**  
Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab MKK3-3F5 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5; lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**