

## Mouse Monoclonal Antibody to

### MKK7 (N-terminus)

### clone 10F7

**Order No.:** 0189-100/MKK7-10F7

**Size (µg):** 100

**Lot No.:** 0189S

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04/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IHC, ICC	45 kDa	SW480	N-Terminus	peptide conjugated to hemocyanin

#### Background and Specificity:

The stress response of mammalian cells results in activation of kinases of the SAPK1 and SAPK2 families. The SAP kinases are specifically activated by dual phosphorylation of a conserved **T-X-Y** motif by MAP kinase kinases (MKK). The 3 isoforms of the SAPK1 family (SAPK1 $\alpha$ /jnk2; SAPK1 $\beta$ /jnk3; SAPK1 $\gamma$ /jnk1) are synergistically activated by phosphorylation of the threonine residue by MKK7 and the tyrosine residue by MKK4.

**Mab MKK7-10F7** specifically recognizes the N-terminus of MKK7. The antibody is suitable for Western Blot and ELISA applications.

#### 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 MEK1/2**

#0150-100/MEK1/2-9G3

**mab to MEK1 (pS218/222)**

**mab to MEK2 (pS222/226)**

#0174-100/MEK1/2-7E10

**mab to MEK2 (N-terminus)**

#0148-100/MEK2-8E8

**mab to MKK3 (N-terminus)**

#0166-100/MKK3-5F7

**mab to MKK5 (N-terminus)**

#0224-100/MKK5-14B5

**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.

**Avoid repeated freeze / thaw cycles.**

**Positive Control:** #0801: Cell lysate from untreated SW480 cells

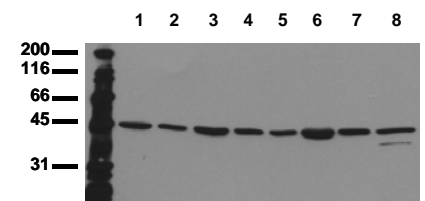
**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection  
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**ELISA:** use at 0.1 µg/ml

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



#### Detection of endogenous MKK7

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 MKK7-10F7 (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