

Product datasheet for **AM00096PU-N**

MEK7 (MAP2K7) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 10F7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10F7
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA: 0.1 µg/ml. Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Included Positive Control: Cell lysate from Untreated SW480 cells. Immunocytochemistry. Immunohistochemistry on Frozen Sections.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. Epitope: N-Terminus.
Specificity:	This antibody specifically recognizes the N-terminus of MKK7.
Formulation:	1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction from Serum-free Cell Culture Supernatant
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	45 kDa



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Gene Name:	mitogen-activated protein kinase kinase 7
Database Link:	Entrez Gene 5609 Human O14733
Background:	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 α /jnk2; SAPK1 β /jnk3; SAPK1 γ /jnk1) are synergistically activated by phosphorylation of the threonine residue by MKK7 and the tyrosine residue by MKK4.
Synonyms:	MAPK/ERK kinase 7, JNK-activating kinase 2, c-Jun N-terminal kinase kinase 2, MAPKK 7, NKK2, MEK7, MKK7, MAP kinase kinase 7
Note:	Protocol: Positive Control Cell lysate from untreated SW480 cells

Format: Lyophilized cell lysate from serum starved SW480 cells.

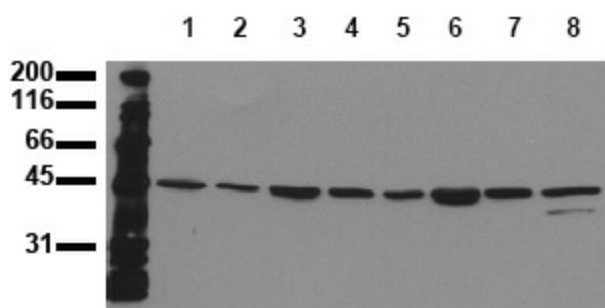
Reconstitution: Restore by addition of 200 μ l H₂O. After complete solubilization add 200 μ l 2x SDSPAGE sample buffer, mix and incubate at 90°C for 5 min.

Applications: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 20,000 cells. Use 20 μ l / lane (mini gel) for HRPO/ECL detection of the target proteins.

Note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Storage: In aliquots at -20°C. Avoid repeated freezing and thawing.

Product images:



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 μ g/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