

AM00095PU-N**Monoclonal Antibody to MAP2K5 (incl. pos. control) - Purified**

Alternate names:	Dual specificity mitogen-activated protein kinase kinase 5, MAP kinase kinase 5, MAPKK 5, MEK5, MKK5
Quantity:	0.1 mg
Background:	Mitogen-activated protein kinase kinase 5 (MKK5) belongs to the serine/threonine protein kinase family and the MAPK subfamily (MAP2K, MKK or MEKs). MKK5 specifically phosphorylates erk5/MAPK7 within the kinase activation loop pThr-E-pTyr motif. After activation erk5 phosphorylates MKK5 on multiple phosphoserine residues. The MKK5/erk5 pathway may play an important role in prostate and breast cancer.
Uniprot ID:	Q13163
NCBI:	NP_001193733.1
GeneID:	5607
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	14B5
Immunogen:	Synthetic peptide conjugated to hemocyanin
Format:	State: Lyophilized purified IgG Purification: Size exclusion chromatography Buffer System: 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose Reconstitution: Restore with 1 ml H2O (15 min, RT).
Applications:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Positive Control: Cell lysate from untreated A431 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to MKK5. Species: Human, Mouse, Rat, Dog. Other species not tested.
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Shelf life: one year from despatch.

Pictures:

Detection of endogenous MKK5 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 MKK5-14B5 (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

