

Product datasheet for **AM00086PU-N**

ERK2 (MAPK1) (N-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 6H3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6H3
Applications:	ELISA, WB
Recommended Dilution:	ELISA: Use at 0.05 µg/ml. Immunoblotting: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. Included Positive Control: Cell lysate from untreated HepG2 cells (See Protocols for more details).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to Hemocyanin. Epitope: N-terminus.
Specificity:	This antibody specifically recognizes the N-terminus of MAP kinase 2 (ERK2).
Formulation:	1ml 2 x PBS containing PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore with 1.0 ml H ₂ O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for one month 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 to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Predicted Protein Size: 42 kDa

Gene Name: mitogen-activated protein kinase 1

Database Link: [Entrez Gene 5594 Human P28482](#)

Background: Extracellular signal/mitogen activated protein kinases (erk/MAPK) are a group of proline-directed serine/threonine kinases that are activated by dual phosphorylation of conserved threonine and tyrosine residues within a characteristic T X Y peptide motif. The mitogen-activated kinases erk1 (MAPK1) and erk2 (MAPK2) acquire full enzymatic activity upon phosphorylation of both threonine and tyrosine residues within the sequence motif **T E Y**.

Synonyms: Mitogen-activated protein kinase 1, p42-MAPK, ERT1, PRKM1, PRKM2, MAP kinase 2, MAPK2, MAPK1

Note: Protocol: **Positive Control Provided: Cell lysate from Untreated HepG2**

Description: Cell lysate from untreated HepG2 cells, hepatocellular carcinoma (human)

Format: Lyophilized cell lysate from serum starved HepG2 cells.

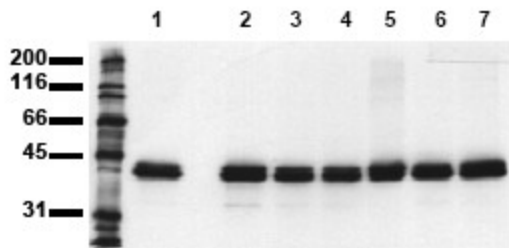
Reconstitution: Restore by addition of 200 μ l H₂O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Storage: Aliquote and store frozen. Avoid repeated freeze/thaw cycles.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 80.000 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.

Product images:



Detection of endogenous MAPK2: 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 MAPK2 antibody (0.5 μ g/ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: A431 Lane 2:SW480 Lane 3: SW620 Lane 4: HT29 Lane 5: MCF7 Lane 6: MDA231 Lane 7: T47D