

## Product datasheet for **AM00085PU-N**

### **ERK2 (MAPK1) (C-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 6G11]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	6G11
Applications:	ELISA, IP, WB
Recommended Dilution:	<b>ELISA:</b> Use at 0.05 µg/ml. <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 AS00002BU-N or AS00002BU-L. <b>Immunoprecipitation:</b> 1-10 µg/ml per 10 <sup>6</sup> pervanadate-treated A431 cells. <b>Included Positive Control:</b> Cell lysate from untreated HepG2 cells (See <b>Protocols</b> for more details).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to KLH <b>Epitope:</b> C-terminus
Specificity:	This antibody specifically recognizes the C-terminus of MAP kinase 2 (ERK2). It <b>does not</b> crossreact with MAP kinase 1 (ERK1).
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 <sub>2</sub> 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.



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**Stability:** Shelf life: one year from despatch.

**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.

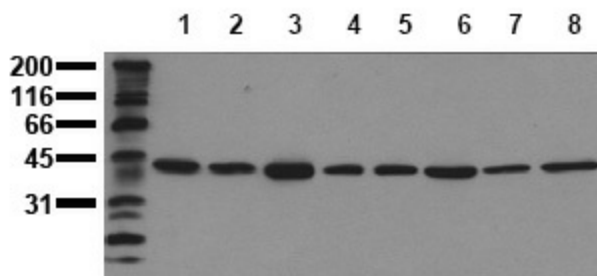
**Reconstitution:** Restore by addition of 200  $\mu$ l H<sub>2</sub>O. After complete solubilization add 200  $\mu$ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

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

**Application:** The positive control cell lysate is recommended for immunoblot applications. 20  $\mu$ l of positive control cell lysate correspond to ca. 80.000 cells. Use 20  $\mu$ 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 mab MAPK2-6G11 (0.5  $\mu$ 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