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Product datasheet for AM00085BT-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:	**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. **Immunoprecipitation:** 1-10 µg/ml per 10e6 pervanadate-treated A431 cells. *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 KLH **Epitope:** C-terminus
Specificity:	This antibody specifically recognizes the C-terminus of MAP kinase 2 (ERK2). It does not crossreact with MAP kinase 1 (ERK1).
Formulation:	PBS with 0.09% Sodium Azide/PEG and Sucrose. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography.
Conjugation:	Biotin
Storage:	Aliquote and freeze in liquid nitrogen 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.
Gene Name:	mitogen-activated protein kinase 1

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Database Link:	Entrez Gene 26413 MouseEntrez Gene 116590 RatEntrez 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:	**Mol. weight:** 42 kDa 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 µl H20. After complete solubilization add 200 µl 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 µl of positive control cell lysate correspond to ca. 80.000 cells. Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins. **Please note:** The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.
Protein Families:	Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Adherens junction, Alzheimer's disease, Axon guidance, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, TGF-beta signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Type II diabetes mellitus, Vascular smooth muscle contraction, VEGF signaling pathway