

Mouse Monoclonal Antibody to

MAPK2/erk2 (internal sequence)

clone 12A4

Order No.: **0239-100/MAPK2-12A4**

Size (µg) 100

Lot No.: 0239S



04/230307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human	WB	42 kDa	A431	aa 200 - 250	peptide conjugated to hemocyanin

Background and Specificity:

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.

Mab MAPK2-12A4 recognizes MAP kinase 2 (erk2) at 42 kDa in Western-blot applications.

Related Products

- mab to MEK1 (pS218/222)**
- mab to MEK2 (pS222/226)**
- #0174-100/MEK1/2-7E10
- mab to MEK1 (N-terminus)**
- #0186-100/MEK1.10B1
- mab to MEK1/2**
- #0150-100/MEK1/2-9G3
- mab to MEK2 (N-terminus)**
- #0148-100/MEK2-8E8
- mab to MKK3 (N-terminus)**
- #0166-100/MKK3-5F7
- mab to MKK5 (N-terminus)**
- #0224-100/MKK5-14B5
- mab to MKK7 (N-terminus)**
- #0189-100/MKK7-10F7
- mab to MAPK 1/2 (pT-E-pY)**
- #0012-100/MAPK-12D4
- mab to MAPK 2 (C-terminus)**
- #0011-100/MAPK-6G11
- mab to MAPK 2 (N-terminus)**
- #0178-100/MAPK2-6H3
- mab to MAPK7/erk5**
- #0223-100/MAPK7/erk5-12F2
- mab to Fos (pS374)**
- #0118-100/Fos-34E4
- mab to Fos (N-terminus)**
- #0122-100/Fos-8B5
- mab to C-Raf (pS621)**
- #0102-100/C-Raf-6B4
- mab to C-Raf**
- #0120-100/C-Raf-PBB-1

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography.
Formulation:	lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted 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.

Avoid repeated freeze / thaw cycles.

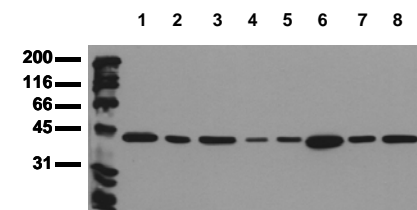
Positive Control: #0831: Cell lysate from untreated A431 cells

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: ND



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 MAPK2-12A4 (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

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.