Mouse Monoclonal Antibody to

Fos (phospho-Ser 374)

clone 34E4

Order No.: **0118-100/Fos-34E4**

Size (µg) 100

Lot No.: 0118S

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03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, dog	WB, ELISA, IHC	50 kDa	HepG2	phosphoserine 374 S L S pS P T L	phosphopeptide conjugated to KLH

Background and Specificity:

The immediated early gene product c-Fos is expressed following mitogenic stimulation. c-Fos functions as a sensor for MAPK signal duration. When MAPK activation is transient, MAPK activity declines before accumulation of the c-Fos protein. When MAPK activation is sustained, c-Fos is phosphorylated by MAPK at serine 374. Phosphorylation stabilizes the Fos protein and primes c-Fos for additional phosphorylation at threonine 325.

Mab Fos-34E4 specifically interacts with c-Fos phosphorylated at serine 374. The antibody is suitable for Western blot and ELISA applications.

Related Products

mab to Fos (N-terminus)
#0122-100/Fos-8B5

mab to MAPK 1/2 (pT-E-pY)
#0012-100/MAPK-12D4

mab to MAPK 2/erk2 (C-terminus)
#0011-100/MAPK-6G11

mab to MAPK 2/erk2 (N-terminus)
#0178-100/MAPK-6H3

mab to MAPK 7/erk5
#0223-100/MAPK7/erk5-12F2

mab to MEK1 (N-terminus)
#0186-100/MEK1-10B1

mab to MEK1 (pS218/222)
mab to MEK2 (pS222/226)
#0174-100/MEK1/2-7E10

mab to MEK1/2
#0150-100/MEK1/2-9G3

mab to MEK2 (N-terminus)
#0148-100/MEK2-8E8

mab to MKK3/MAP2K3 (N-terminus)
#0166-100/MKK3-5F7

mab to MKK7 (N-terminus)
#0189-100/MKK7-10F7

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography

Formulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H_2O (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.

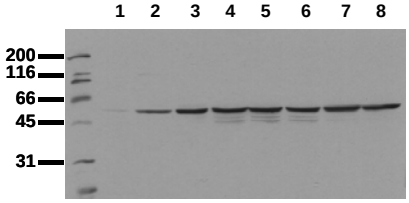
Positive Control: #0813: Cell lysate from EGF-treated HepG2 cells

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: 0.1 µg/ml (protein ELISA); capture ELISA: ND



fos activation

Serum starved HepG2 cells were incubated with 10 ng/ml EGF for the indicated times. Whole cell lysates were prepared with lysis buffer V19 and separated by SDS-PAGE (ca 20.000 cells/lane). Immunoblots were probed with mab fos-34E4 (0.5 µg/ ml) for 1h at room temperature and developed by ECL (exp. time: 30 sec).

lane 1: control; lane 2: 5 min EGF; lane 3: 15 min EGF; lane 4: 30 min EGF; lane 5: 1h EGF;lane 6; 2h EGF lane 7: 4h EGF; lane 8: 8h EGF