

Mouse Monoclonal Antibody to

Fos (N-terminus)

clone 8B5

Order No.: 0122-100/FOS-8B5

Size (µg) 100

Lot No.: 0122S

www.nanotools.de

orders & support:

email: info@nanotools.de

phone: +49-7641-455 670

fax: +49-7641-455 671

03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IHC	50 kDa	HepG2	N-terminus	peptide conjugated to KLH

Background and Specificity:

The immediate 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-8B5 specifically interacts with the N-terminus of c-Fos. The antibody is suitable for Western blot and ELISA applications. It can be used for the detection of cellular Fos levels that might dramatically change during signal transduction. It is an important tool in combination with **mab Fos-34E4 (phospho-Ser 374)** for studying fos expression and phosphorylation.

Related Products

mab to Fos (pS374)

#0118-100/Fos-34E4

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

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 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 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.

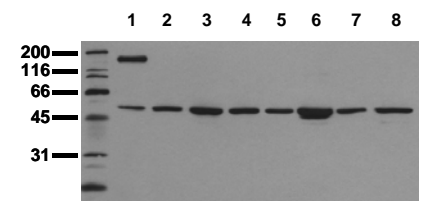
Positive Control:	#0811: Cell lysate from untreated HepG2 cells
Immunoblotting:	0.5 µg/ml for HRPO/ECL detection Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

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

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



Detection of endogenous fos

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 FOS-8B5 (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