

AM00062PU-N**Monoclonal Antibody to c-fos (N-term) (incl. pos. control) - Purified**

Alternate names:	Cellular oncogene fos, FOS, G0/G1 switch regulatory protein 7, G0S7, Proto-oncogene protein c-fos
Quantity:	0.1 mg
Background:	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.
Uniprot ID:	P01100
NCBI:	NP_005243.1
GeneID:	2353
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	8B5
Immunogen:	Synthetic peptide conjugated to KLH.
Format:	State: Lyophilized purified IgG fraction Purification: Subsequent Thiophilic Adsorption and Size Exclusion Chromatography. Buffer System: 2x PBS containing 0.09% Sodium Azide, PEG and Sucrose Reconstitution: Restore with 1 ml H ₂ O (15 min, RT).
Applications:	ELISA: 0.1 µg/ml (protein ELISA). Immunohistochemistry on Frozen Sections. Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. <i>Included Positive Control:</i> Cell lysate from untreated HepG2 cells (See 'Protocols'). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody specifically interacts with the N-terminus of c-Fos. 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-Ser374) for studying fos expression and phosphorylation. Species: Human, Mouse, Rat, Dog. Other species not tested.

Storage: Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C.
 Avoid repeated freezing and thawing.
 Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
 Shelf life: one year from despatch

Protocols: **Positive Control:** Cell lysate from untreated HepG2 cells.

Format: Lyophilized cell lysate from serum starved HepG2 cells.

Reconstitution: Restore by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 20.000 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 in immunoprecipitation.

Storage: Aliquote reconstituted product and store frozen. Avoid repeated freezing and thawing.

Pictures:

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

