

## Product datasheet for **AM00062PU-N**

### **c Fos (FOS) (N-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 8B5]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	8B5
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA: 0.1 µg/ml (protein ELISA).</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Western Blot:</b> 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').
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH.
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.
Formulation:	2x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H <sub>2</sub> O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography.
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch



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**Gene Name:** Fos proto-oncogene, AP-1 transcription factor subunit

**Database Link:** [Entrez Gene 2353 Human P01100](#)

**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.

**Synonyms:** FOS, G0S7

**Note:** Protocol: **Positive Control: Cell lysate from untreated HepG2 cells.**

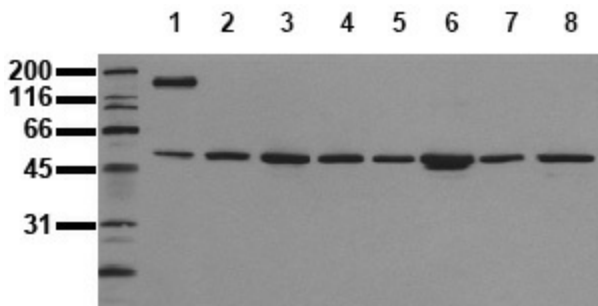
**Format:** Lyophilized cell lysate from serum starved HepG2 cells.

**Reconstitution:** Restore by addition of 200  $\mu$ l H<sub>2</sub>O. After complete solubilization add 200  $\mu$ l 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  $\mu$ l of positive control cell lysate correspond to ca. 20.000 cells. Use 20  $\mu$ l/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.

**Product images:**



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  $\mu$ g/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