

Product datasheet for **AM00152PU-N**

STAT6 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 8C12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8C12
Applications:	ELISA, IHC, WB
Recommended Dilution:	Western Blot: 1 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. ELISA: 0.05 µg/ml. Immunohistochemistry.
Reactivity:	Canine, Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH
Specificity:	This antibody specifically recognizes STAT6 at 100 kDa.
Formulation:	1 ml 2 x PBS / 0.09% Sodium Azide / PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -20°C to -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.
Gene Name:	signal transducer and activator of transcription 6
Database Link:	Entrez Gene 6778 Human P42226



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Background:

The STAT proteins serve as both cytoplasmic signal transducers and nuclear activators of transcription. STATs are mediators involved in cytokine signalling. In response to a specific cytokine signal, STAT proteins are phosphorylated on conserved tyrosine residues. Phosphorylated STAT proteins dimerize via their SH2 domains and move to the nucleus. The STAT dimers bind to specific DNA elements resulting in transcriptional regulation of downstream target genes. STAT6 is activated primarily by IL-4 and IL-13. Upon activation, STAT6 is phosphorylated at tyrosine 641 by Janus Kinase (JAK). Phosphorylated STAT6 forms head-to-tail heterodimers and translocates to the nucleus where it participates in transcriptional control.

Synonyms:

IL-4 Stat

Note:

Included Postive Control: Cell Lysate from untreated HepG2 Cells (See Protocols).

Protocol: **Positive Control Cell Lysate: HepG2 untreated**

Formulation: 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.

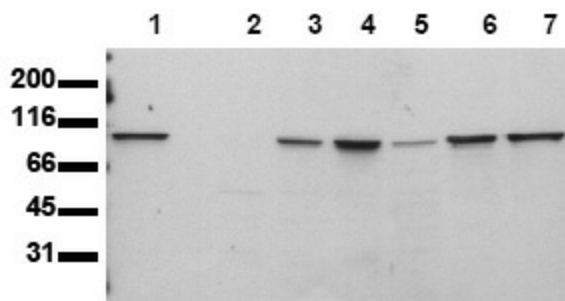
Use 20 µl/Lane (mini gel) for HRPO/ECL detection of the target proteins.

Please Note : The lyophilized cell lysates contains SDS and **are not recommended** for applications with native proteins such as Immunoprecipitaion.

Storage: Aliquote and store frozen.

Avoid repeated freeze/thaw cycles.

Shelf life: one year from despatch.

Product images:

Detection of Endogenous STAT6: 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 immunoblots was probed with mab STAT6-8C12 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: A431. Lane 2: SW480 Lane 3: SW620 Lane 4: HT29. Lane 5: MCF7. Lane 6: MDA-MB231 Lane 7: T47D