

## Product datasheet for **AM00151PU-N**

### **STAT6 pTyr641 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 16E12]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	16E12
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. <b>ELISA:</b> 0.05 µg/ml. <b>Immunohistochemistry.</b>

#### **Included Positive Control Cell Lysate: HepG2 IL-4 treated**

Formulation: Lyophilized Cell Lysate from Serum starved HepG2 cells treated for 15min with Interleukin 4 .

Reconstitution: Restore by addition of 200 µl H<sub>2</sub>O. 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.

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 contains SDS and **are not recommended** for applications with native proteins such as Immunoprecipitation.

Storage: Aliquote and store frozen.

Avoid repeated freeze/thaw cycles.

Shelf life: one year from despatch.

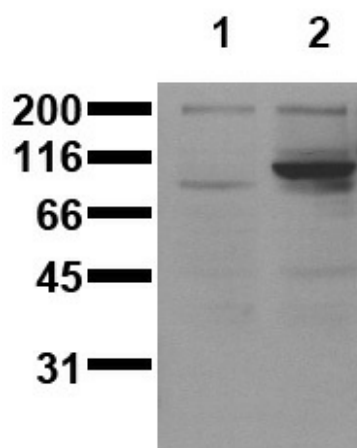
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH



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<b>Specificity:</b>	This antibody specifically recognizes activated STAT6 phosphorylated at Tyr641 at 100kDa. It does not cross-react with non-phosphorylated form of STAT6 nor with unrelated phosphorylation sites.
<b>Formulation:</b>	1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
<b>Reconstitution Method:</b>	Restore with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Purification:</b>	Size Exclusion Chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	signal transducer and activator of transcription 6
<b>Database Link:</b>	<a href="#">Entrez Gene 6778 Human P42226</a>
<b>Background:</b>	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.
<b>Synonyms:</b>	IL-4 Stat

## Product images:



Phosphospecificity Whole cell lysates of untreated (Lane 1) and IL4-treated (Lane 2) HepG2 cells were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with STAT6 antibody clone 16E12 at 1ug/ml for 1h at 15-22°C and developed by ECL (exposure time: 3min).