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Product datasheet for AM00149PU-N

STAT3 pSer727 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 23G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	23G5
Applications:	ELISA, IHC, WB
Recommended Dilution:	**Western Blot:** 0.5 µg/ml for HRPO/ECL detection. *Recommended blocking buffer*: Casein/Tween 20 based blocking and blot incubation buffer. **ELISA:** 0.1 µg/ml. **Immunohistochemistry.** ***Included Positive Control*: Cell lysate from HepG2 pervanadate treated.** **Format:** Lyophilized cell lysate from HepG2 cells. Serum starved cells were treated for 15min with pervanadate. **Reconstitution:** Restore by addition of 200 µl H20. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. **Storage:** Aliquote and store frozen. Avoid repeated freeze/thaw cycles. **Application:** The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 80.000 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 immunoprecipitation.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjuagted to KLH. **Epitope:** ...L P M pS F R T...
Specificity:	This antibody specifically recognizes STAT3 phosphorylated at Ser727. The antibody does not crossreact with the non-phosphorylated form of STAT3 nor with unrelated serine-phosphorylated proteins.

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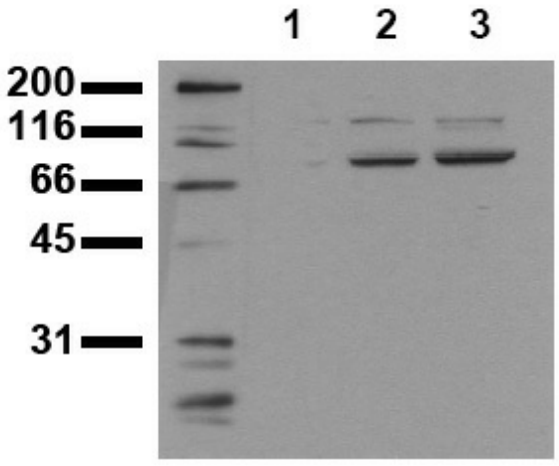
Formulation:	1ml 2 x PBS with 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -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.
Predicted Protein Size:	92 kDa
Gene Name:	signal transducer and activator of transcription 3
Database Link:	Entrez Gene 6774 Human P40763
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. Besides tyrosine phosphorylation, STAT3 activity is regulated by serine phosphorylation at serine 727. Recent reports indicate that both MAP kinase and SAP kinase induce phosphorylaton at serine 727.
Synonyms:	STAT-3, Acute-phase response factor, APRF

Product images:



Phosphospecificity Whole cell extracts of control (1), EGF stimulated (2) or pervanadate treated (3) A 431 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab STAT3-23G5 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 0 sec).