

Mouse Monoclonal Antibody to

STAT6 (phospho-Tyr 641)

clone 16E12

Order No.:

0079-100/STAT6-16E12

Size (µg) Lot No.:

100 0079S



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| LOT NO.: | | 00795 | | | 88 | 03/08050 |)7F | |
|---|---|--|---|---|-----------------------------|---|-------------------------------------|--|
| lsotype | Species Reactivity | Applications | Mol. Weight | Ref.Cell Line | Epitope | | Immunogen | |
| gG1 | human | WB, ELISA, IHC | 100 kDa | HepG2 | phosphotyrosi G R G pY V | | phosphopeptide conjuagted to KLH | |
| Backgrour | nd and Specificity: | | | | | Related Pro | ducts | |
| The STAT proteins serve as both cytoplasmic <u>s</u> ignal <u>t</u> ransducers and nuclear <u>a</u> ctivators of <u>t</u> ranscription. 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 paricipates in transcriptional control. Mab STAT6-16E12 specifically recognizes activated STAT6 phosphorylated at Tyr 641 at 100 kDa. The antibody does not crossreact with non-phosphorylated form of STAT6 nor with unrelated phosphorylation sites. | | | | | | mab to STAT1 (phospho-Ser 727) #0176-100/STAT1-12C5 mab to STAT3 (phospho-Tyr 705) #0036-100/STAT3-9E12 mab to STAT3 (phospho-Ser 727) #0145-100/STAT3-23G5 mab to STAT5 A/B (phospho-Tyr 695/699) #0121-100/STAT5-5G4 mab to STAT6 (aa 630-650) #0063-100/STAT6-8C12 | | |
| sup | | e antibody was purified from serum-free cell culture pernatant by subsequent thiophilic adsorption and size clusion chromatography. | | | | | | |
| Formulatio | | lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose. | | | | | | |
| Reconstitu | on: Reconstitute with 1 ml H_2O (15 min, RT). | | | | | | | |
| Stability: | Upo recc Tha | For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. 1 2 | | | | | | |
| | Avo | Avoid repeated freeze / thaw cycles. | | | | 20 |)— — — | |
| Positive Co | ontrol: #08 | 815: Cell lysate from IL-4-treated HepG2 cells | | | | 110 | Statement Statement | |
| mmunoblo | Rec bloc | | <mark>king buffer:</mark> Ca bation buffer, e. | sein/Tween 20 bas g. nanoTools prod PT. | | 66 — 45 — 31 — | | |
| mmunopre | ecipitation: ND | | | | | Phosphospecifici | ty | |
| mmunocy | tochemistry: ND | | | | | Whole cell lysates of untreated (lane 1) and IL4-treated (lane HepG2 cells were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab STAT6-16E12 at 1µg/ml for 1h at 15-22°C and developed by | | |
| ELISA: | use | use at 0.05 μg/ml | | | | ECL (exposure time: 3min). | | |
| | | | | | | | | |

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.

