DATASHEET

Monoclonal Antibody to

STAT3 (phospho-Tyr 705) clone 9E12

Order No.:	**0036-100/STAT3-9E12**	Last Modified 10.02.2005
Size (µg)	100	
Lot No.:	0036S	
Host:	Mouse	
Isotype:	IgG1 kappa	
Immunogen:	Phosphopeptide conjugated to KLH	
Epitope:	. . . A P pY$_{705}$ L K . . .	

Species Reactivity

Human	Mouse	Rat	Dog
yes	yes	no	yes

Background & Specificity:

The STAT proteins serve as both cytoplasmic signal transducers and nuclear activators of transcription.
STAT3 is activated by tyrosine phosphorylation at residue Y705 in cells treated with Interleukin 6 or EGF. Activated STAT3 can bind to DNA either as homodimer or as heterodimer with STAT1.

Mab STAT3-9E12 specifically recognizes activated **STAT3 phosphorylated at tyrosine 705**. The antibody does not crossreact with the non-phosphorylated form of STAT3 nor with unrelated tyrosine-phosphorylated proteins. Mab STAT3-9E12 is particularly suited for Western Blot and ELISA applications.

Related products:
Mab STAT3-23G5, directed against STAT3 phosphorylated at Serine 727 (0145-100/STAT3-23G5).
Mab STAT5-5G4, directed against STAT5 A/B phosphorylated at Tyrosines 695/699 (#0121-100/STAT5-5G4).
Mab STAT6-16E12, directed against STAT6 phosphorylated at Tyrosine 641 (#0079-100/STAT6-16E12).
Mab STAT6-8C12, directed against generic STAT6 (0063-100/STAT6-8C12).

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Formulation:	lyophilized from 1 ml 2 x PBS / 0.1 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H_2O (15 min, RT).
Stability:	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. **Avoid repeated freeze / thaw cycles**
Positive Control:	Cell lysate from vanadate-treated A431 cells (#0832).
Immunoblotting:	0.1 µg/ml for HRPO/ECL detection **Recommended blocking buffer CPPT:** 0.5% (w/v) casein, 1% (w/v) PEG 4000, 1% (w/v) Polyvinylpyrrolidone (PVP), 0.1% (v/v) Tween 20, 10 mM Tris/HCl, pH 7.4, 150 mM NaCl
Immunoprecipitation	use at 1 - 10 µg per 10^6 vanadate treated A431 cells
Immunocytochemistry	ND
ELISA:	use at 0.05 µg/ml

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

nanoTools Antikörpertechnik GmbH & Co. KG. Tscheulinstr. 21 . D-79331 Teningen Tel: 07641 - 455 670 . Fax: 07641 - 455 671 . e-mail: info@nanotools.de
Sitz Teningen . eingetragen beim AG Emmendingen HRA 1041 . Pers. haftender Gesellschafter: nanoTools Antikörpertechnik
Verwaltungs GmbH . Sitz Teningen . eingetragen beim AG Emmendingen HRB 1182 . Geschäftsführerin: Dr. Petra Schüßler