

Datasheet for ABIN126898

anti-STAT3 antibody (pTyr705)[Go to Product page](#)**1** Image

Overview

Quantity:	0.1 mg
Target:	STAT3
Binding Specificity:	pTyr705
Reactivity:	Human, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Synthetic phosphopeptide conjugated to KLH
Clone:	9-00E-012
Isotype:	IgG1
Specificity:	The STAT proteins serve as both cytoplasmic signal transducers and nuclear activators of transcription. STAT3 is activated by tyrosine phosphorylation at residue Tyr 705 in cells treated with interleukin 6 or EGF. Activated STAT3 can bind to DNA either as homodimer or as heterodimer with STAT1. AM00148PU-N specifically recognizes STAT3 phosphorylated at Tyr 705 in human, mouse and dog. The antibody does not crossreact with the non-phosphorylated form of STAT3 nor with unrelated tyrosine-phosphorylated proteins. AM00148PU-N is particularly suitable for Western blot and ELISA applications.

Product Details

Characteristics:	Synonyms: STAT-3, Acute-phase response factor, APRF, Signal transducer and activator of transcription 3
Purification:	Size exclusion chromatography
Components:	incl. positive Control

Target Details

Target:	STAT3
Alternative Name:	STAT3 (STAT3 Products)
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. STAT3 is activated by tyrosine phosphorylation at residue Tyr 705 in cells treated with interleukin 6 or EGF. Activated STAT3 can bind to DNA either as homodimer or as heterodimer with STAT1. Synonyms: APRF, Acute-phase response factor, STAT-3, Signal transducer and activator of transcription 3
Molecular Weight:	92 kDa
Gene ID:	6774
UniProt:	P40763
Pathways:	JAK-STAT Signaling , RTK Signaling , Interferon-gamma Pathway , Neurotrophin Signaling Pathway , Dopaminergic Neurogenesis , Response to Growth Hormone Stimulus , Carbohydrate Homeostasis , Stem Cell Maintenance , Hepatitis C , Protein targeting to Nucleus , Feeding Behaviour , CXCR4-mediated Signaling Events , Signaling of Hepatocyte Growth Factor Receptor

Application Details

Application Notes:	Western Blot: 0.5 µg/mL for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. ELISA: 0.05 µg/mL. Immunoprecipitation: 1 - 10g per 10⁶ pervanadate treated HepG2 cells. Immunocytochemistry: 1 - 10 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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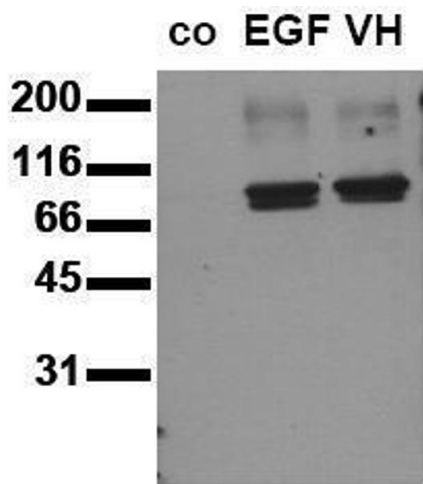
Application Details

Restrictions: For Research Use only

Handling

Reconstitution:	Restore with 1 mL H2O (15 min, RT).
Buffer:	1 mL2 x PBS with 0.09 % Sodium Azide, PEG and Sucrose
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C/-80 °C
Storage Comment:	Store lyophilized (preferably in a desiccator) at -20 °C and reconstituted (aliquote andfreeze 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. Shelf life: one year from despatch.
Expiry Date:	12 months

Images



Western Blotting

Image 1.