

Datasheet for ABIN126899

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

Overview

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

Product Details

Immunogen:	Synthetic phosphopeptide conjugated to KLH
Clone:	23G5
Isotype:	IgG1
Specificity:	This antibody specifically recognizes STAT3 phosphorylated at Ser 727. The antibody does not crossreact with the non-phosphorylated form of STAT3 nor with unrelated serine-phosphorylated proteins.
Characteristics:	Synonyms: STAT-3, Acute-phase response factor, APRF, Signal transducer and activator of transcription 3
Purification:	Size exclusion chromatography

Product Details

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. Besides tyrosine phosphorylation, STAT3 activity is regulated by serine phosphorylation at serine 727. Recent reports indicate that both MAP kinase and SAP kinase induce phosphorylation at serine 727. Synonyms: APRF, Acute-phase response factor, STAT-3, Signal transducer and activator of transcription 3

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: 0.1 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Reconstitution: Restore with 1 mL H₂O (15 min, RT).

Buffer: 1 mL 2 x PBS / 0.09 % Na-azide / PEG and Sucrose

Handling

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 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. Shelf life: one year from despatch.
Expiry Date:	12 months

Images

