

Datasheet for ABIN5596960

anti-STAT3 antibody



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1 Image

Overview

Quantity:	100 µg
Target:	STAT3
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Dot Blot (DB)

Product Details

Purpose:	STAT3 (Internal) Antibody
Immunogen:	Immunogen: STAT3 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with synthetic monomethylated or asymmetric dimethylated peptides surrounding Arginine 31 of human STAT. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody reacts with all STAT3 modifications.
Characteristics:	Synonyms: rabbit anti-STAT3 antibody, STAT-3, STAT 3, Signal transducer and activator of transcription 3, Acute-phase response factor, APRF
Purification:	Anti-STAT3 was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	STAT3
Alternative Name:	STAT3 (STAT3 Products)
Background:	Background: Signal transducer and activator of transcription 3 (Stat3) belongs to a family of cytoplasmic transcription factors that can be activated by phosphorylation by its cell surface receptor. Stat3 plays a key role in many cellular processes such as cell growth and apoptosis. It also mediates cellular responses to interleukins, KITLG/SCF,EGF, IFN-alpha and other growth factors and may mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Stat3 forms a homodimer or a heterodimer with a related family member (e.g. STAT1). Activation occurs through phosphorylation of tyrosine 705 and serine 727. Phosphorylation of Stat3 at Tyr705 induces Stat3 dimerization and nuclear translocation. Serine phosphorylation is important for stable DNA-binding of Stat3 homodimers and maximal transcriptional activity. Stat3 can have a dual role in cancer, it has been found that Stat3 protein can promote oncogenesis and have a tumor suppressor role depending upon the mutational Background of the tumor.
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:	Application Note: Anti-STAT3 antibody has been tested by Dot Blot and is useful for Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~88 kDa corresponding to STAT3 protein by Western Blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500 ELISA Dilution: 1:5000
Restrictions:	For Research Use only

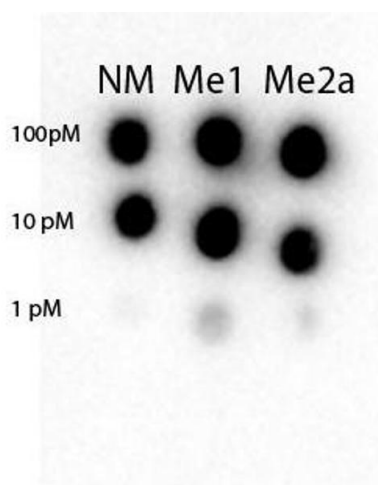
Handling

Format:	Liquid
Concentration:	1.0 mg/mL

Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 30 % Glycerol Preservative: 0.05 % (w/v) Sodium Azide
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:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Dot Blot

Image 1. Dot blot of Rabbit Anti-STAT3 antibody. Antigen: non-modified, monomethylated and asymmetric dimethylated forms of the immunizing peptide from the internal portion of the STAT3 protein. Load: 100, 10, or 1 picomolar as indicated. Primary antibody: STAT3 (Internal) antibody at 1:1000 for 90 min at RT. (Date: 10/22/14; Exposure time: 3.6 seconds).