Datasheet for ABIN6284709

anti-STAT3 antibody (AA 640-720)

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Overview

Quantity:	50 µL
Target:	STAT3
Binding Specificity:	AA 640-720
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Stat3 is a protein encoded by the STAT3 gene which is approximately 88 kDa. Stat3 is localised to the cytoplasm and nucleus. It is involved in the immune response IL-23 signalling pathway, RET signalling, Th17 cell differentiation and prolactin signalling pathway. This protein falls under the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. Stat3 is expressed in the heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Mutations in the STAT3 gene may result in Hyperimmunoglobulin E recurrent infection syndrome. STJ95808 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Stat3 protein.

Product Details

Immunogen:	Synthesized peptide derived from human Stat3 around the non-phosphorylation site of Y705.
Isotype:	IgG
Specificity:	Stat3 Polyclonal Antibody detects endogenous levels of Stat3 protein.
Characteristics:	Rabbit polyclonal to Stat3.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	STAT3
Alternative Name:	Stat3 (STAT3 Products)
Molecular Weight:	88 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:	WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:5000
Comment:	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C, and avoid repeat freeze-thaw cycles.