

Datasheet for ABIN210643 **anti-STAT3 antibody (AA 688-722)**



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Overview

Quantity:	200 µg
Target:	STAT3
Binding Specificity:	AA 688-722
Reactivity:	Human, Mouse, Rat, Cow, Pig, Monkey, Horse, Hamster
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Gel Shift (GS)

Product Details

Immunogen:	Bacterially expressed GST fusion protein corresponding to human STAT3 (aa688-722, RPESQEHPEADPGSAAPYLKTKFICVPTTCSNTI). The immunizing sequence is identical in mouse and rat STAT3. The first 28 amino acids are identical to mouse STAT3B. Percent identity by BLAST analysis: Human, Gorilla, Orangutan, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Bovine, Horse, Pig, Opossum (100%), Sheep (97%), Chicken (84%). Type of Immunogen: Fusion protein
Isotype:	IgG
Specificity:	Recognizes STAT3 (92kD). A second unknown band at 50kD may be observed with longer exposures or at high concentrations of the antibody. Species cross-reactivity: Human, rat and mouse.

Product Details

Predicted Reactivity:	Percent identity by BLAST analysis: Human, Gorilla, Orangutan, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Bovine, Horse, Pig, Opossum (100%) Sheep (97%) Chicken (84%).
Purification:	Protein A purified

Target Details

Target:	STAT3
Alternative Name:	STAT3 (STAT3 Products)
Background:	Name/Gene ID: STAT3 Synonyms: STAT3, Acute-phase response factor, APRF, DNA-binding protein APRF, HIES
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:	Approved: GS, ICC (10 µg/mL), IP, WB (2 - 4 µg/mL) Usage: Suitable for use in Western Blot, Immunocytochemistry and Immunoprecipitation. Western Blot: 2-4 µg/mL detects STAT3 in RIPA lysates from EGF stimulated human A431 cells. EGF-stimulated A431 cell lysate was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-STAT3 (2 µg/mL). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Immunocytochemistry: 10 µg/mL shows positive immunostaining for STAT 3 in A431 cells fixed with 95 % ethanol, 5 % acetic acid. Immunoprecipitation: 4 µg immunoprecipitates STAT 3 from 500 µg of EGF-stimulated A431 RIPA lysate. Gel Shift Assay: This antibody supershifts.
Comment:	Target Species of Antibody: Human
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	0.1 M Tris-glycine, pH 7.4, 0.15 M sodium chloride, 0.05 % sodium azide, 40 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeat freeze-thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Short term: 4°C. Long term: Store at -20°C. Avoid freeze-thaw cycles.