

Product datasheet

Anti-STAT6 (phospho Y641) antibody [EPR18278-265] - BSA and Azide free ab223128

Recombinant RabMAb

5 Images

Overview

Product name	Anti-STAT6 (phospho Y641) antibody [EPR18278-265] - BSA and Azide free
Description	Rabbit monoclonal [EPR18278-265] to STAT6 (phospho Y641) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP, Flow Cyt (Intra), Dot blot
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Daudi whole cell lysate treated with 100 ng/ml interleukin 4 (IL-4) for 15 minutes. ICC/IF: Daudi cells treated with interleukin 4 (IL-4) (100 ng/ml) for 15minutes. Flow Cyt (intra): Daudi treated with 100 ng/ml IL-4 for 15 minutes. IP: Daudi whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes.
General notes	<p>ab223128 is the carrier-free version of ab188080.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form Liquid

Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18278-265
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab223128 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 110 kDa (predicted molecular weight: 94 kDa).
IP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
Dot blot		Use at an assay dependent concentration.

Target

Function	Carries out a dual function: signal transduction and activation of transcription. Involved in interleukin-4 signalling.
Sequence similarities	Belongs to the transcription factor STAT family. Contains 1 SH2 domain.
Post-translational modifications	Tyrosine phosphorylated following stimulation by IL-4 and IL-3.
Cellular localization	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

Images



Dot blot analysis of STAT6 (phospho Y641) labeled with [ab188080](#) at 1/1000 dilution.

Lane 1: STAT6 (phospho Y641) phospho peptide.

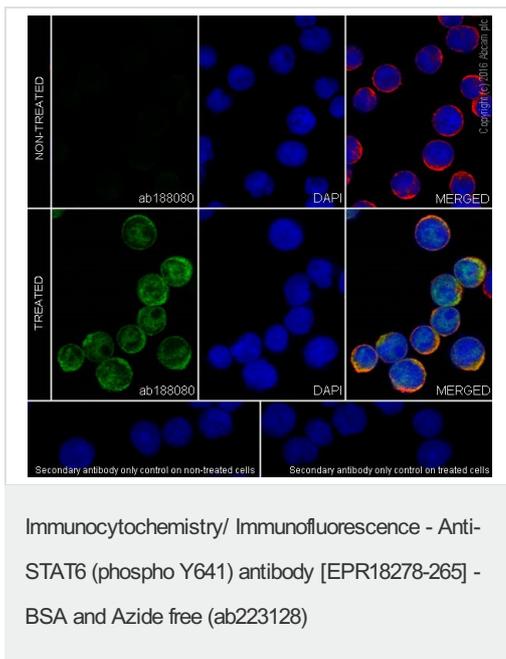
Lane 2: STAT6 non-phospho peptide.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution was used as secondary antibody.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab188080](#)).



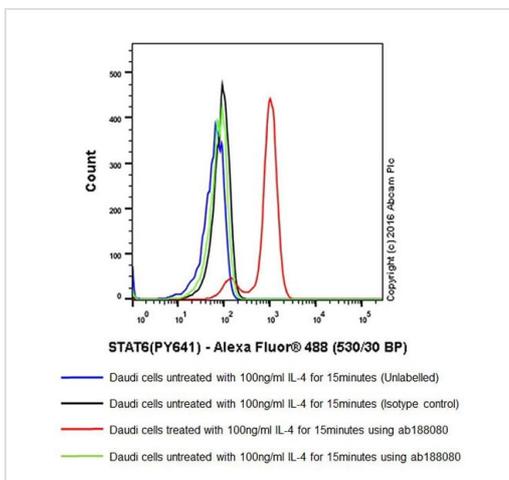
Immunofluorescent analysis of 100% methanol-fixed Daudi (Human Burkitt's lymphoma cell line) cells, treated with interleukin 4 (IL-4) (100 ng/ml) for 15minutes, or untreated, labeling STAT6 (phospho Y641) with [ab188080](#) at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

The expression increased and there was nuclear translocation of STAT6 after treatment with interleukin 4 (IL-4) (100 ng/ml) for 15minutes (PMID:22226123).

The nuclear counterstain is DAPI (blue). Tubulin is detected with [ab195889](#) (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor[®] 488) ([ab150077](#)) at 1/1000 dilution.

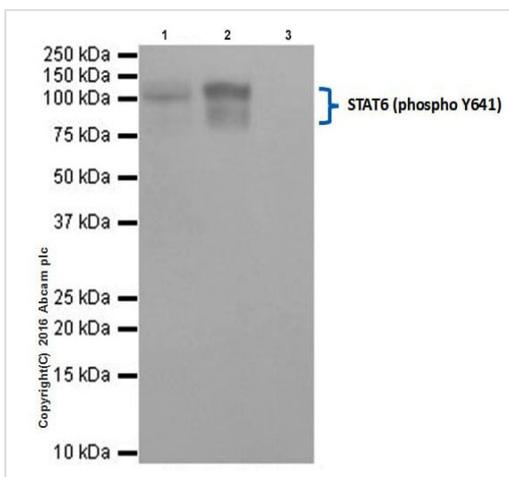
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab188080](#)).



Flow Cytometry (Intracellular) - Anti-STAT6 (phospho Y641) antibody [EPR18278-265] - BSA and Azide free (ab223128)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Daudi (Human Burkitt's lymphoma cell line) treated/untreated with 100 ng/ml IL-4 for 15 minutes cells labeling STAT6 (phospho Y641) with [ab188080](#) at 1/400 dilution (treated, red; untreated, green) compared with a rabbit monoclonal IgG isotype control ([ab172730](#); black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab188080](#)).



Immunoprecipitation - Anti-STAT6 (phospho Y641) antibody [EPR18278-265] - BSA and Azide free (ab223128)

STAT6 (phospho Y641) was immunoprecipitated from 0.35 mg of Daudi (Human Burkitt's lymphoma cell line) whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes with [ab188080](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab188080](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: Daudi whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes, 10µg (Input). Lane 2: [ab188080](#) IP in Daudi whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes. Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab188080](#) in Daudi whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes.

Blocking and dilution buffer and concentration: 5% NFDN/TBST.

Exposure time: 1 second.

This antibody recognizes three isoforms of STAT6, isoform 1 (110KD), isoform 2 (75KD), isoform 3 (81KD), which is consistent with the Uniprot annotation.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab188080](#)).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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