abcam

Product datasheet

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

Recombinant RabMAb

5 Images

## Overview

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|---|---|
| **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** | ab223128 is the carrier-free version of **ab188080**.<br><br>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.<br><br>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.<br><br>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.<br><br>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.<br><br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## Properties

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| **Form** | Liquid |

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| **Storage instructions** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **Storage buffer** | pH: 7.2<br>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.

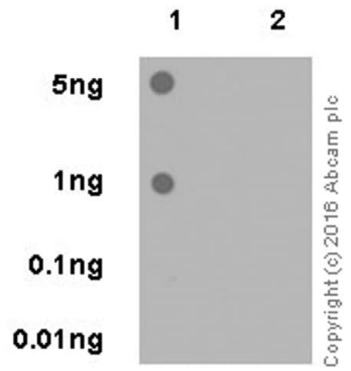
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| 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.<br>**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.<br>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 - Anti-STAT6 (phospho Y641) antibody [EPR18278-265] - BSA and Azide free (ab223128)

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

Lane 1: STAT6 (phospho Y641) phospho peptide.

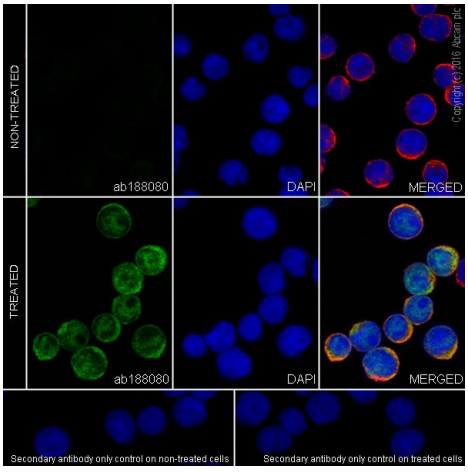
Lane 2: STAT6 non-phospho peptide.

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**).




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

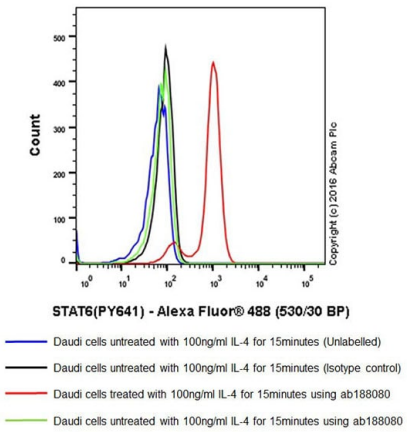
Immunofluorescent analysis of 100% methanol-fixed Daudi (Human Burkitt's lymphoma cell line) cells, treated with interleukin 4 (IL-4) (100 ng/ml) for 15minutes, or untreated, labeling STAT6 (phospho Y641) with **ab188080** at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**)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

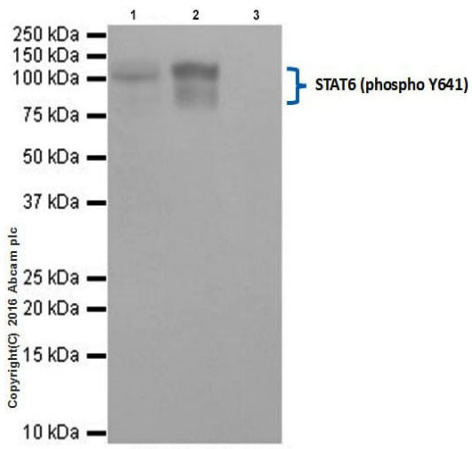
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab188080**).




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.

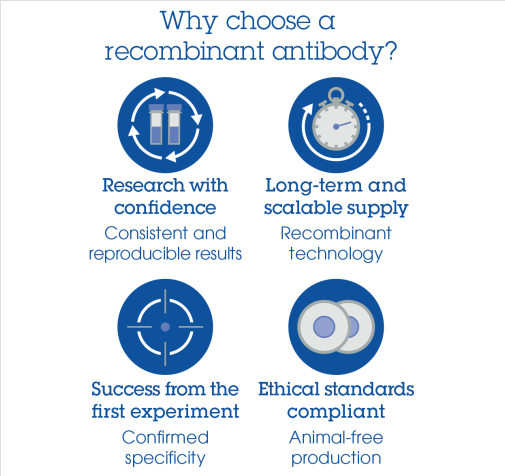
Lane 1: Daudi whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes, 10µg (Input). Lane 2: **ab188080** IP in Daudi whole cell lysate treated with 100 ng/ml IL-4 for 15 minutes. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab188080** in Daudi whole cell lysate treated with 100 ng/ml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

Blocking and dilution buffer and concentration: 5% NFDM/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**).




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

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