abcam

Product datasheet

Anti-STAT6 antibody [E265] ab32108

KO VALIDATED Recombinant RabMAb

3 References 6 Images

Overview

Product name	Anti-STAT6 antibody [E265]
Description	Rabbit monoclonal [E265] to STAT6
Host species	Rabbit
Specificity	ab32108 recognises Stat-6. It does not cross react with other STAT family members
Tested applications	**Suitable for:** WB, IP, Flow Cyt (Intra), ICC/IF **Unsuitable for:** IHC
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human STAT6 aa 800-900 (C terminal). The exact sequence is proprietary.
Positive control	WB: HeLa and Raji cells. ICC/IF: Raji cells. Flow Cyt (intra): HeLa cells IP: HeLa cell lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	E265
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32108 in the following tested applications.

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

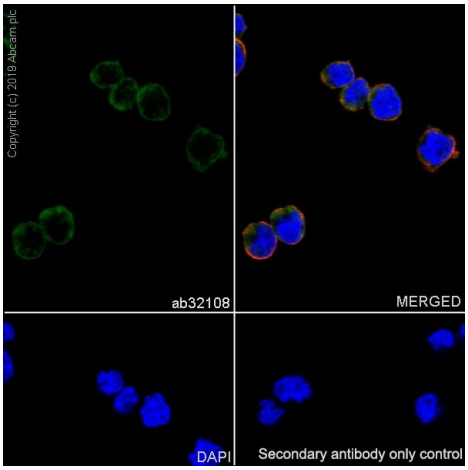
Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 100 kDa (predicted molecular weight: 94 kDa).
IP		1/50.
Flow Cyt (Intra)		1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IHC.

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.

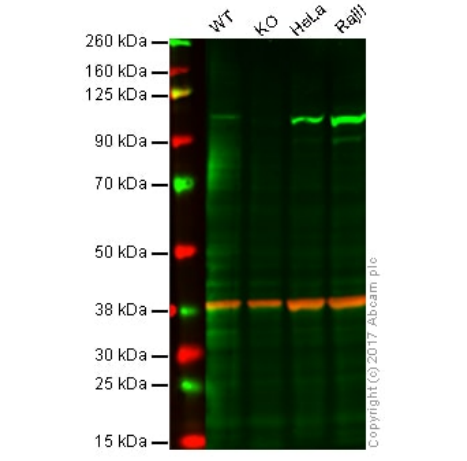
Images



Immunocytochemistry/ Immunofluorescence - Anti-STAT6 antibody [E265] (ab32108)

Confocal image showing cytoplasmic staining in Raji cells.

Immunocytochemistry/immunofluorescence analysis of Raji (human Burkitt's lymphoma B lymphocyte) cells labelling STAT6 with ab32108 at 10 µg/mL. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) was used as a secondary antibody at 2 µg/mL. Cells were counterstained with **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (red). Nuclear DNA was labelled with DAPI (blue).

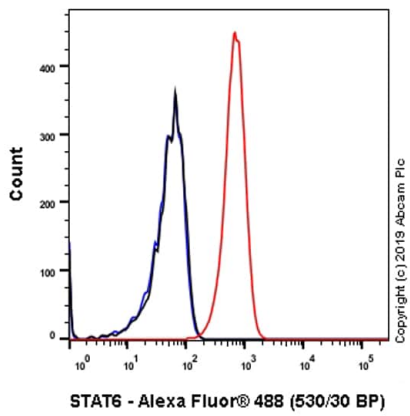


Western blot - Anti-STAT6 antibody [E265] (ab32108)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: STAT6 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: Raji whole cell lysate (20 µg)

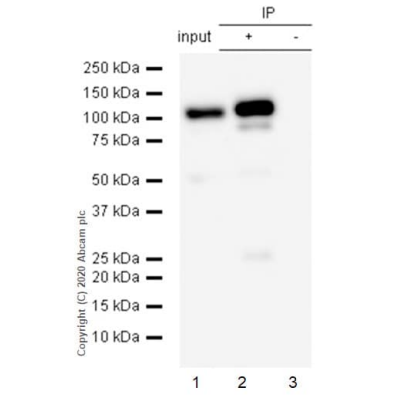
Lanes 1 - 4: Merged signal (red and green). Green - ab32108 observed at 94 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab32108 was shown to specifically react with STAT6 in wild-type HAP1 cells as signal was lost in STAT6 knockout cells. Wild-type and STAT6 knockout samples were subjected to SDS-PAGE. Ab32108 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



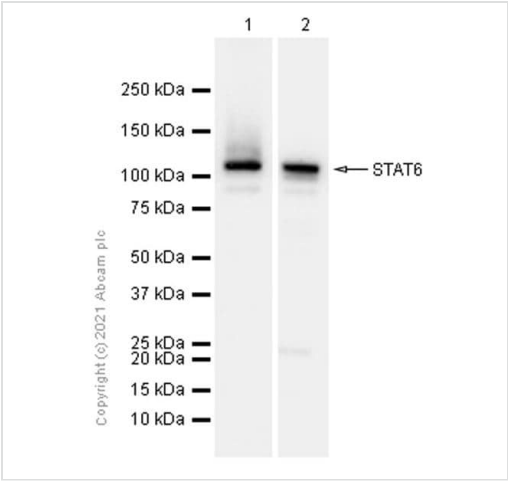
Flow Cytometry (Intracellular) - Anti-STAT6 antibody [E265] (ab32108)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling STAT6 with purified ab32108 at 1/100 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cells without incubation with primary antibody and secondary antibody (Blue).



Immunoprecipitation - Anti-STAT6 antibody [E265] (ab32108)

Purified ab32108 at 1/50 dilution (2µg) immunoprecipitating STAT6 in HeLa whole cell lysate.
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg
Lane 2 (+): ab32108 + HeLa whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32108 in HeLa whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 100 kDa



Western blot - Anti-STAT6 antibody [E265] (ab32108)

All lanes : Anti-STAT6 antibody [E265] (ab32108) at 1/10000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 94 kDa
Observed band size: 110,81 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: Lane 1. 7 seconds ; Lane 2. 3 seconds

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

Anti-STAT6 antibody [E265] (ab32108)

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