

Product datasheet

Anti-Fas antibody [EPR5700] - BSA and Azide free ab178076

KO VALIDATED

Recombinant

RabMAb

7 Images

Overview

Product name	Anti-Fas antibody [EPR5700] - BSA and Azide free
Description	Rabbit monoclonal [EPR5700] to Fas - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt (Intra) or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa cell lysate. IHC-P: Human tonsil tissue. ICC/IF: Raji cells
General notes	<p>ab178076 is the carrier-free version of ab133619.</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	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5700
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab178076 in the following tested applications.

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

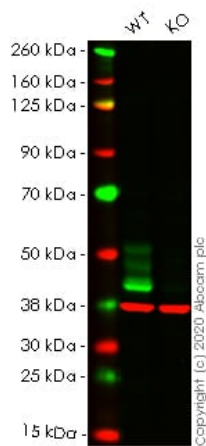
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 45 kDa (predicted molecular weight: 37 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt (Intra) or IP.

Target

Function	Receptor for TNFSF6/FASLG. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T-cells, or both. The secreted isoforms 2 to 6 block apoptosis (in vitro).
Tissue specificity	Isoform 1 and isoform 6 are expressed at equal levels in resting peripheral blood mononuclear cells. After activation there is an increase in isoform 1 and decrease in the levels of isoform 6.
Involvement in disease	Defects in FAS are the cause of autoimmune lymphoproliferative syndrome type 1A (ALPS1A) [MIM:601859]; also known as Canale-Smith syndrome (CSS). ALPS is a childhood syndrome involving hemolytic anemia and thrombocytopenia with massive lymphadenopathy and splenomegaly.
Sequence similarities	Contains 1 death domain. Contains 3 TNFR-Cys repeats.
Domain	Contains a death domain involved in the binding of FADD, and maybe to other cytosolic adapter proteins.
Cellular localization	Secreted and Cell membrane.

Images



Western blot - Anti-Fas antibody [EPR5700] - BSA and Azide free (ab178076)

All lanes : Anti-Fas antibody [EPR5700] ([ab133619](#)) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : FAS knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

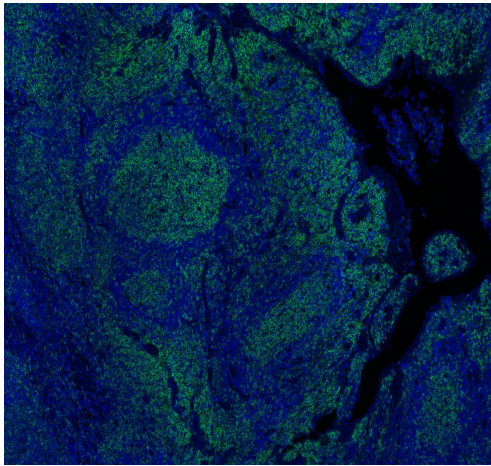
Predicted band size: 37 kDa

Observed band size: 37 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab133619](#)).

Lanes 1-2: Merged signal (red and green). Green - [ab133619](#) observed at 37 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

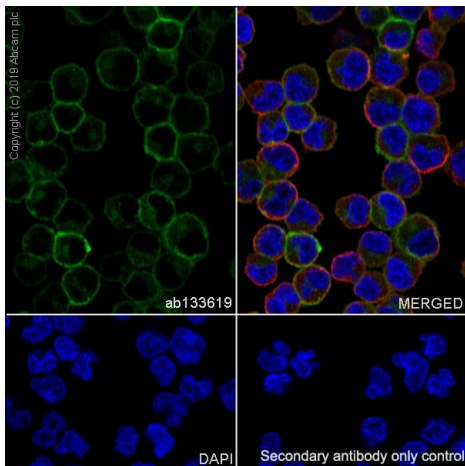
[ab133619](#) Anti-Fas antibody [EPR5700] was shown to specifically react with Fas in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265260](#) (knockout cell lysate [ab256911](#)) was used. Wild-type and Fas knockout samples were subjected to SDS-PAGE. [ab133619](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fas antibody [EPR5700] - BSA and Azide free (ab178076)

Anti-Fas antibody [EPR5700] ([ab133619](#))

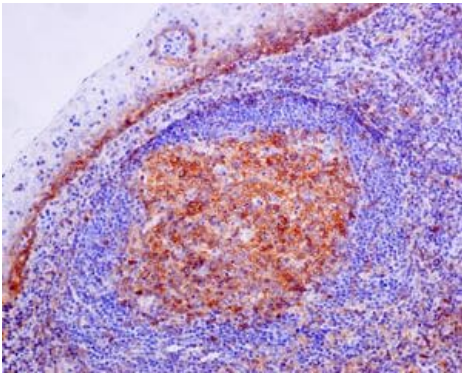
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling Fas with [ab133619](#) at a dilution of 1:500. Heat mediated antigen retrieval was performed using AR9 antigen retrieval solution, and microwave treatment for 15 min at 20% power. Anti-Rabbit/Mouse HRP polymer (PerkinElmer Opal Polymer HRP Ms Plus Rb) was used as secondary antibody. Opal tyramide amplification was performed using Opal 520 fluorophore. Counterstained with DAPI stain. Image scanned with Vectra 3.0 and analyzed via Phenochart software. This image was courteously provided by Dr. Houssein Abdul Sater, Georgia Cancer Center.



Immunocytochemistry/ Immunofluorescence - Anti-Fas antibody [EPR5700] - BSA and Azide free (ab178076)

This data was developed using the same antibody clone in a different buffer formulation ([ab133619](#)).

Immunocytochemistry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) labeling Fas with purified [ab133619](#) at 1/50 dilution. Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/1000 (2 µg/ml) was used as the secondary antibody. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.31 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI. Negative control: PBS instead of the primary antibody.

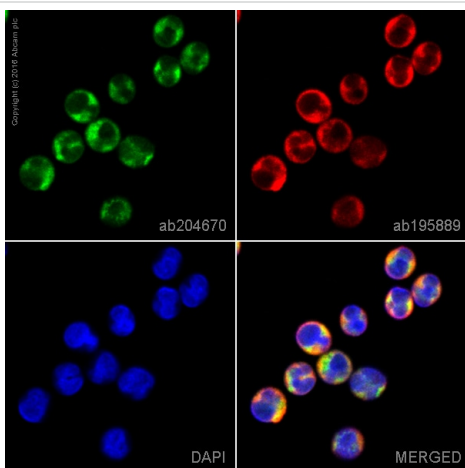


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fas antibody [EPR5700]
- BSA and Azide free (ab178076)

Immunohistochemical analysis of paraffin embedded Human tonsil tissue labelling CD95 with [ab133619](#) antibody at a dilution of 1/250.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133619](#)).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



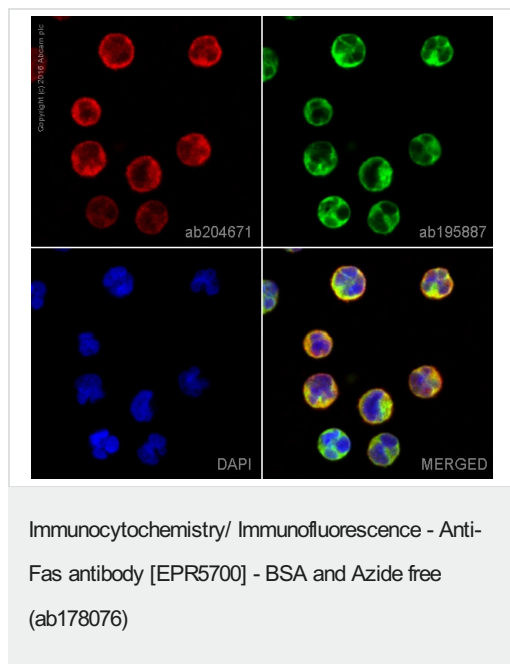
Immunocytochemistry/ Immunofluorescence - Anti-Fas antibody [EPR5700] - BSA and Azide free (ab178076)

Clone EPR5700 (ab178076) has been successfully conjugated by Abcam. This image was generated using Anti-Fas antibody [EPR5700] (Alexa Fluor® 488). Please refer to [ab204670](#) for protocol details.

[ab204670](#) staining Fas in Raji cells. The cells were fixed with 80% methanol (5 min) and then incubated in 1%BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated overnight at +4°C with [ab204670](#) at 1/100 dilution (shown in green) and [ab195889](#), Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in Raji cells fixed with 4% formaldehyde (10 min).



Clone EPR5700 (ab178076) has been successfully conjugated by Abcam. This image was generated using Anti-Fas antibody [EPR5700] (Alexa Fluor® 647). Please refer to [ab204671](#) for protocol details.

[ab204671](#) staining Fas in Raji cells. The cells were fixed with 4% formaldehyde (10 min) and then incubated in 1%BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated overnight at +4°C with [ab204671](#) at 1/50 dilution (shown in red) and [ab195887](#), Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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

Anti-Fas antibody [EPR5700] - BSA and Azide free (ab178076)

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