


Product datasheet

Anti-CD3 antibody [SP162] - Low endotoxin, Azide free ab246799

Recombinant RabMAb

[7 Images](#)

Overview

Product name	Anti-CD3 antibody [SP162] - Low endotoxin, Azide free
Description	Rabbit monoclonal [SP162] to CD3 - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, Flow Cyt (Intra), ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Rabbit, Chicken, Cow, Dog, Pig 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human tonsil tissue. Flow Cyt (intra): Jurkat and Mouse Splenocyte cells WB: Jurkat whole cell lysate (ab7899). ICC/IF: Jurkat and EL4.IL-2 cells
General notes	<p>ab246799 is the carrier-free version of ab135372.</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 a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our Low endotoxin, azide-free formats have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.</p>

This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	Endotoxin level is less than 1 EU/ml as determined by the TAL test
Clonality	Monoclonal
Clone number	SP162
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab246799 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Incubate with primary antibody for 10 minutes at room temperature.
WB		Use at an assay dependent concentration. Predicted molecular weight: 19 kDa. Incubate for 1 hour at room temperature.
Flow Cyt (Intra)		Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.

Target

Function	The CD3 complex mediates signal transduction.
Involvement in disease	Defects in CD3D are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)/B(+)/NK(+)) SCID [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity,

leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.

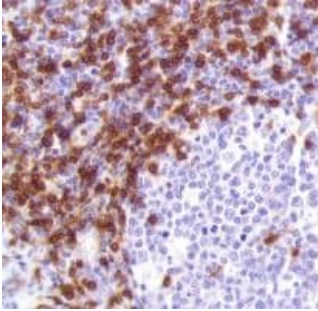
Sequence similarities

Contains 1 ITAM domain.

Cellular localization

Membrane.

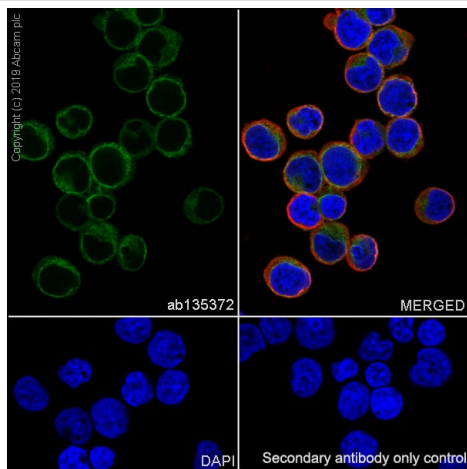
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 antibody [SP162] - Low endotoxin, Azide free (ab246799)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human tonsil tissue labeling CD3 with [ab135372](#) at a 1/150 dilution.

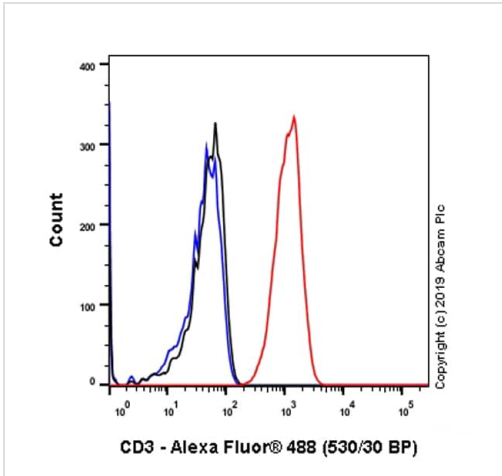
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab135372](#)).



Immunocytochemistry/ Immunofluorescence - Anti-CD3 antibody [SP162] - Low endotoxin, Azide free (ab246799)

Immunocytochemistry/ Immunofluorescence analysis of Jurkat (human T cell leukemia T lymphocyte) cells labeling CD3 with purified [ab135372](#) at 1/10 (10 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor[®] 488, [ab150077](#)) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

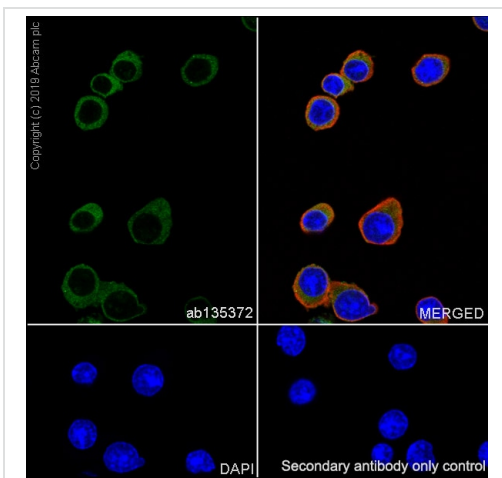
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab135372](#)).



Flow Cytometry (Intracellular) - Anti-CD3 antibody [SP162] - Low endotoxin, Azide free (ab246799)

Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CD3 with purified **ab135372** at 1/200 dilution (0.60 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 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) / Black. Unlabeled control - Unlabelled cells / blue.

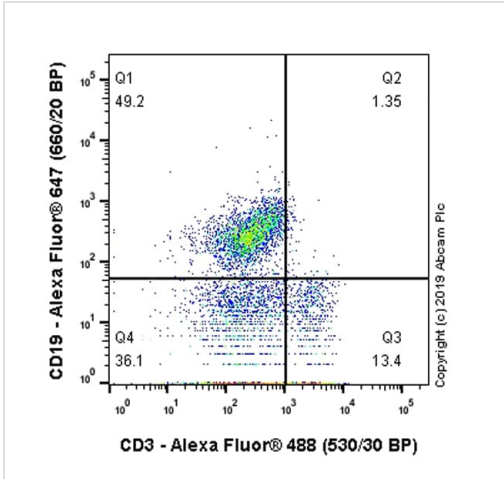
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab135372**).



Immunocytochemistry/ Immunofluorescence - Anti-CD3 antibody [SP162] - Low endotoxin, Azide free (ab246799)

Immunocytochemistry/ Immunofluorescence analysis of EL4.IL-2 (mouse lymphoma T lymphocyte) cells labeling CD3 with purified **ab135372** at 1/10 (10 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

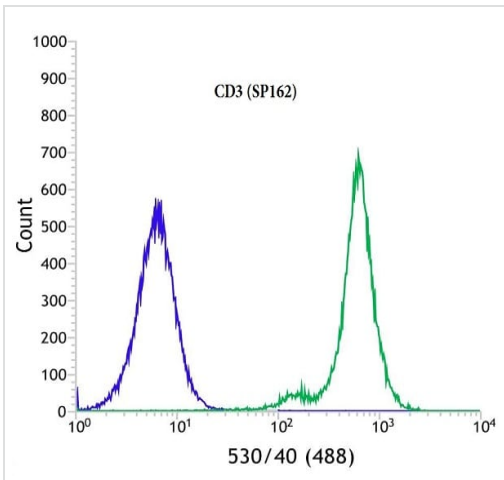
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab135372**).



Flow Cytometry (Intracellular) - Anti-CD3 antibody [SP162] - Low endotoxin, Azide free (ab246799)

Intracellular Flow Cytometry analysis of Mouse Splenocyte cells labeling CD3 with purified **ab135372** at 1/20 dilution (5.95µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor®488, **ab150081**) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) / Black. Unlabeled control - Unlabelled cells / blue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab135372**).



Flow Cytometry (Intracellular) - Anti-CD3 antibody [SP162] - Low endotoxin, Azide free (ab246799)

Intracellular flow cytometric analysis of rabbit anti-CD3 (SP162) antibody **ab135372** (1/150) in Jurkat (Human T cell leukemia cell line from peripheral blood) cells (green) compared to negative control of rabbit IgG (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (**ab135372**).

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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