abcam

Product datasheet

Anti-CD3 antibody [SP162] ab135372

Recombinant RabMAb

★★★★★ 1 Abreviews 2 References 7 Images

Overview

Product name Anti-CD3 antibody [SP162]

Description Rabbit monoclonal [SP162] to CD3

Host species Rabbit

Tested applications Suitable for: ICC/IF, IHC-P, Flow Cyt, WB

Species reactivity Reacts with: Mouse, Human

Predicted to work with: Rat, Rabbit, Chicken, Cow, Dog, Pig

Immunogen Synthetic peptide within Human CD3 aa 150 to the C-terminus (internal sequence). The exact

> sequence is proprietary. Database link: P07766

Positive control IHC-P: Human tonsil tissue. Flow Cyt: Jurkat and Mouse Splenocyte cells WB: Jurkat whole cell

lysate (ab7899). ICC/IF: Jurkat and EL4.IL-2 cells

General notes This product is FOR RESEARCH USE ONLY. For commercial use, please contact

partnerships@abcam.com.

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.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.6

> Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA

Purity Immunogen affinity purified

Purification notes Purified from TCS by protein A/G.

Clonality Monoclonal

Clone number SP162

Isotype IgG

Applications

Our Abpromise guarantee covers the use of ab135372 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		1/10.
IHC-P	****	1/150. 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.
Flow Cyt		1/150 - 1/200. ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
WB		1/150. Predicted molecular weight: 19 kDa. Incubate for 1 hour at room temperature.

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

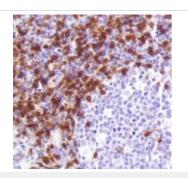
negative/B-cell-positive/NK-cell-positive (T(-)/B(+)/NK(+) SCID) [MIM:6089/1]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or 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.

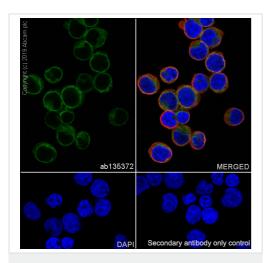
Cellular localization Membrane.

Images



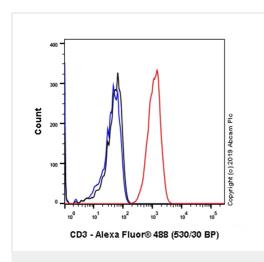
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD3 antibody [SP162] (ab135372)

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



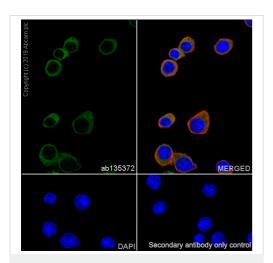
Immunocytochemistry/ Immunofluorescence - Anti-CD3 antibody [SP162] (ab135372)

Immunocytochemistry/ Immunofluorescence analysis of Jurkat (human T cell leukemia T lymphocyte) cells labeling CD3 with purified ab135372 at 1/10 (10 μ g/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 μ g/ml). Goat anti rabbit lgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 μ g/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



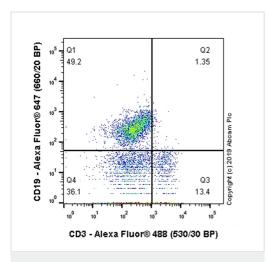
Flow Cytometry - Anti-CD3 antibody [SP162] (ab135372)

Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CD3 with purified ab135372 at 1/200 dilution (0.60 μ g/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit lgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal lgG (ab172730) / Black. Unlabeled control - Unlabelled cells / blue.

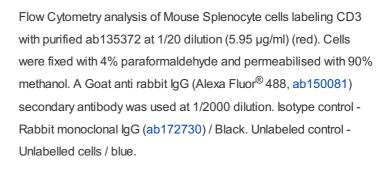


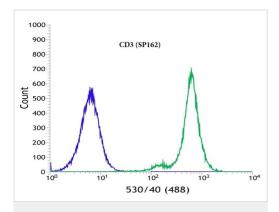
Immunocytochemistry/ Immunofluorescence - Anti-CD3 antibody [SP162] (ab135372)

Immunocytochemistry/ Immunofluorescence analysis of EL4.IL-2 (mouse lymphoma T lymphocyte) cells labeling CD3 with purified ab135372 at 1/10 (10 μ g/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 μ g/ml). Goat anti rabbit lgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 μ g/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



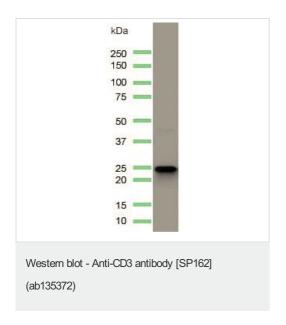
Flow Cytometry - Anti-CD3 antibody [SP162] (ab135372)





Flow Cytometry - Anti-CD3 antibody [SP162] (ab135372)

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 lgG (blue).



Anti-CD3 antibody [SP162] (ab135372) at 1/150 dilution + Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate

Predicted band size: 19 kDa

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- · Valid for 12 months from date of delivery
- · Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors