

## Product datasheet

# Anti-CD3 antibody [PS1] ab699

★★★★☆ [12 Abreviews](#) [25 References](#)

### Overview

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<b>Product name</b>	Anti-CD3 antibody [PS1]
<b>Description</b>	Mouse monoclonal [PS1] to CD3
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody, when used in conjunction with UCHL-1, is regarded as a reliable pan T-cell marker for immunophenotyping of lymphomas (See reference). Exceptions include some of the more aggressive, high-grade T cell lymphomas, which may not express detectable antigen. This antibody does not react with B-cells.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Fusion protein corresponding to CD3. Prokaryotic fusion protein corresponding to the epsilon chain of CD3
<b>Positive control</b>	Tonsil or T-cell lymphoma. IHC-P: Human colon tissue and colorectal mucosa tissue. IHC-Fr: Human skin tissue.
<b>General notes</b>	<p>This antibody works well when used in combination with <a href="#">ab972</a> - Antigen retrieval solution - heat mediated high pH 9.5.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: Proprietary preservative Constituents: PBS, Carrier protein  Proprietary preservative that is not sodium azide or thimerosal, protein carrier.

<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	PS1
<b>Myeloma</b>	unknown
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	unknown

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab699 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-Fr	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★ (3)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (3)	Use at an assay dependent concentration.
WB	★★★★★ (4)	Use at an assay dependent concentration. Predicted molecular weight: 19 kDa. PubMed: 21654633

## Target

<b>Function</b>	The CD3 complex mediates signal transduction.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Contains 1 ITAM domain.
<b>Cellular localization</b>	Membrane.

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

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