

Product datasheet

APC Anti-Kappa light chain antibody [TB28-2] ab119122

Overview

Product name	APC Anti-Kappa light chain antibody [TB28-2]
Description	APC Mouse monoclonal [TB28-2] to Kappa light chain
Host species	Mouse
Conjugation	APC. Ex: 645nm, Em: 660nm
Specificity	ab119122 recognizes Human Ig kappa light chains of both secreted and cell surface immunoglobulin. It detects also free kappa light chains.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Human IgG-kappa myeloma protein.
Positive control	Human blood cells.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: 99% PBS, 0.2% BSA
	BSA (high-grade protease free)
Purity	Size exclusion
Purification notes	ab119122 is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.

Clonality	Monoclonal
Clone number	TB28-2
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab119122 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
Flow Cyt		Use 10µg for 10 ⁶ cells. ab37391 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Relevance Immunoglobulins belong to a group of related glyco proteins which make up 20% of serum proteins. Antigens and immunoglobulins react to confer immunity to individuals. Immunoglobulins have similar structures of two identical heavy chains and two identical light chains. Both the heavy chains and the light chains are divided into constant and variable regions. The constant regions have the same amino acid sequences between all the immunoglobulin classes. The variable regions have approximately 110 amino acids with high sequence variability. The amino acid sequence of the heavy chain determines the class of an immunoglobulin. The five types of immunoglobulin heavy chains are known as: IgG, IgA, IgM, IgD, and IgE. IgG is divided into four subclasses, and IgA is divided into two subclasses. In serum IgA and IgG are monomers with a single 4 polypeptide unit; while, IgM is a pentamer. IgA may also form polymers. Kappa light chain antibody can be used for the identification of leukemias, plasmacytomas and certain non Hodgkin's lymphomas. Kappa light chain contains one immunoglobulin like domain. The EU sequence has the INV allotypic marker, Ala 45 and Val 83. The ROY sequence has the INV allotypic marker, Ala 45 and Leu 83.

Cellular localization Cytoplasmic and Secreted

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