

# Anti-Kappa light chain antibody ab19977

### Overview

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<b>Product name</b>	Anti-Kappa light chain antibody
<b>Description</b>	Goat polyclonal to Kappa light chain
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> Immunoelectrophoresis
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Purified human kappa light chain (Human).
<b>General notes</b>	<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). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.1% Sodium azide Constituent: Tris buffered saline
<b>Purity</b>	Ion Exchange Chromatography
<b>Purification notes</b>	Delipidation and ion exchange chromatography. Product is 0.2um filtered.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab19977 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
Immunoelectrophoresis		

#### Application notes

le: Use at an assay dependent dilution.  
 Monospecific by immunoelectrophoresis when tested against pooled human plasma and twice concentrated pooled human serum.

Not yet tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

#### 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

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

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