

## Anti-Human Ig Kappa light chain Antibody (11822)

### Product Details

Ig Type:	IgG1
Reactivity:	Human
Molecular Weight:	Theoretical: 11 kDa. Actual: 28 kDa.
Clone:	11822
Purification:	Protein G purified

### Applications

Sample:	Lane 1: Human Serum
Verified Activity:	Primary: Anti-Human Ig Kappa light chain (TMAB-07433) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 11 kDa Observed band size: 28 kDa
Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF,ELISA
Recommended	WB: 1:1000-5000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein: human Kappa light chain
Antigen Species:	Human
Gene ID:	3514
Uniprot ID:	P01834

### Research Background

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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