

**Product Name: Kappa light chain (15R1) Rabbit
Monoclonal Antibody
Catalog #: AMRe12897**

Summary

Production Name	Kappa light chain (15R1) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	IGKC {ECO:0000303 PubMed:11549845, ECO:0000303 Ref.13}
Alternative Names	HCAK1; Ig kappa chain C region; IGKCD; Immunoglobulin InV;
Gene ID	
SwissProt ID	P01834.

Application

Dilution Ratio	WB 1:1000-1:5000
Molecular Weight	12kDa

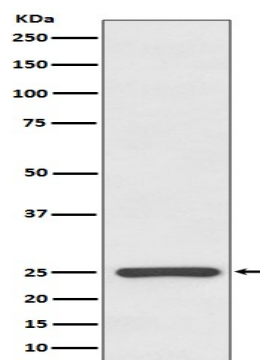
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Background

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. Constant region of immunoglobulin light chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulin-secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed: [22158414](http://www.uniprot.org/citations/22158414), PubMed: [20176268](http://www.uniprot.org/citations/20176268)). The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen (PubMed: [17576170](http://www.uniprot.org/citations/17576170), PubMed: [20176268](http://www.uniprot.org/citations/20176268)).

Research Area

Image Data



Western blot analysis of Kappa light chain expression in human plasma lysate.

Note

For research use only.

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