

Datasheet for ABIN704306

**anti-kappa Light Chain antibody (AA 1-60)****1** Publication[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	kappa Light Chain
Binding Specificity:	AA 1-60
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This kappa Light Chain antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	Purified human Kappa light chain
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human
Purification:	Purified by Protein A.

## Target Details

Target:	kappa Light Chain
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## Target Details

Abstract: [kappa Light Chain Products](#)

Background: Synonyms: HCAK 1, HCAK1, Ig kappa chain C region, IGKC, Immunoglobulin kappa constant, Immunoglobulin kappa constant region, Immunoglobulin kappa light chain, Kappa 1 immunoglobulin light chain, Km, MGC111575, MGC62011, MGC72072, MGC88770, MGC88771, MGC88809.

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.

Gene ID: 10520

## Application Details

Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

## Handling

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Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

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Product cited in: Shen, Chen, Yang, Chen, Liao, Li, Ying, Tian, Liu, Ni: "Redox Proteomic Profiling of Specifically Carbonylated Proteins in the Serum of Triple Transgenic Alzheimer's Disease Mice." in: **International journal of molecular sciences**, Vol. 17, Issue 4, pp. 469, (2016) ([PubMed](#)).