

Datasheet for ABIN457414

## anti-kappa Light Chain antibody



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### Overview

Quantity:	0.1 mg
Target:	kappa Light Chain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This kappa Light Chain antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Clone:	A8B5
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody A8B5 reacts with kappa light chains (22.5 kDa) of immunoglobulins.
No Cross-Reactivity:	Goat, Guinea Pig, Hamster, Rabbit, Sheep
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Target Details

Target:	kappa Light Chain
Alternative Name:	Kappa light chains ( <a href="#">kappa Light Chain Products</a> )
Background:	Immunoglobulin classes share the same basic four polypeptide chain structure of two heavy chains (five heavy chains types) and two light chains (kappa, lambda, both having a molecular weight of 22.5 kDa). Kappa and lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of kappa to lambda is 70:30.,Immunoglobulin kappa, Igk

## Application Details

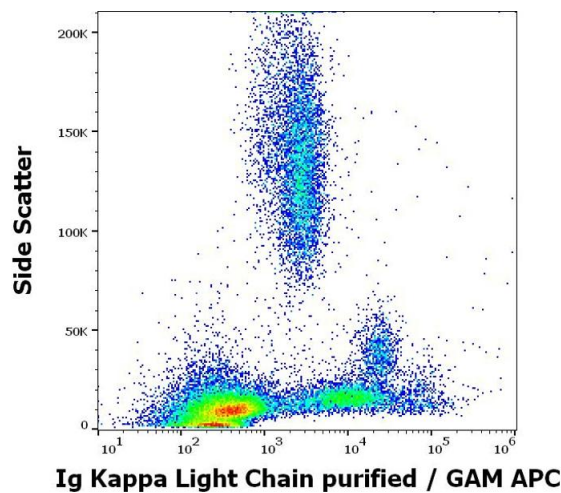
Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL, Positive control: Daudi human cell line.
Restrictions:	For Research Use only

## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

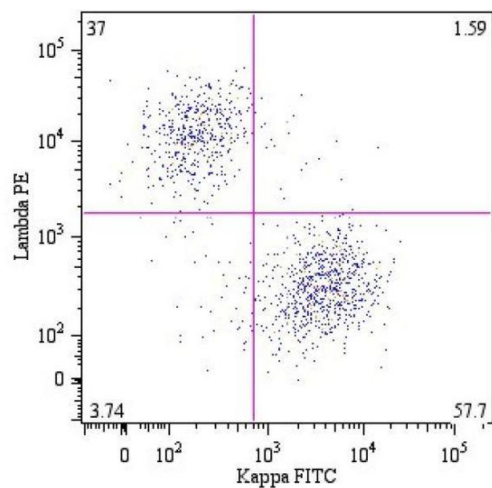
## Publications

Product cited in:	Scheeren, Diehl, Smit, Beaumont, Naspetti, Bende, Blom, Karube, Ohshima, van Noesel, Spits: "IL-21 is expressed in Hodgkin lymphoma and activates STAT5: evidence that activated STAT5 is required for Hodgkin lymphomagenesis." in: <b>Blood</b> , Vol. 111, Issue 9, pp. 4706-15, (2008) ( <a href="#">PubMed</a> ).
	Konig, Wennemuth, Soyer, Hoffmann, Happle, Krause: "Vulvar amyloidosis mimicking giant condylomata acuminata in a patient with multiple myeloma." in: <b>European journal of dermatology : EJD</b> , Vol. 9, Issue 1, pp. 29-31, (1999) ( <a href="#">PubMed</a> ).



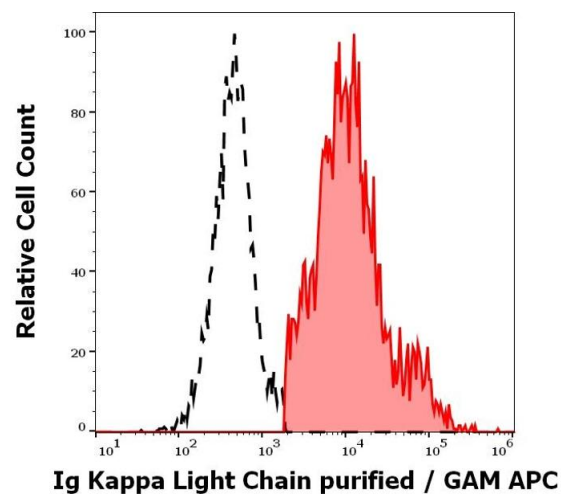
Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human Ig Kappa Light Chain (A8B5) purified antibody (concentration in sample 4 µg/mL, GAM APC).



Flow Cytometry

**Image 2.** B lymphocytes (CD19 +) in a dot-plot Lambda PE vs. Kappa FITC. Kappa light chain detected by A8B5 antibody and lambda light chain by 4C2 antibody, CD19 by LT19 antibody.



Flow Cytometry

**Image 3.** Separation of human Ig Kappa Light Chain positive lymphocytes (red-filled) from Ig Kappa Light Chain negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human Ig Kappa Light Chain (A8B5) purified antibody (concentration in sample 4 µg/mL, GAM APC).