

## Product datasheet

# Anti-Lambda Light chain antibody [GA170] (Phycoerythrin) ab1198

### Overview

<b>Product name</b>	Anti-Lambda Light chain antibody [GA170] (Phycoerythrin)
<b>Description</b>	Mouse monoclonal [GA170] to Lambda Light chain (Phycoerythrin)
<b>Host species</b>	Mouse
<b>Conjugation</b>	Phycoerythrin. Ex: 488nm, Em: 575nm
<b>Specificity</b>	This antibody reacts with lambda light chains of human immunoglobulins.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.1% Sodium azide Constituent: 0.5% BSA
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	GA170
<b>Myeloma</b>	unknown
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	unknown

### Applications

Our [Abpromise guarantee](#) covers the use of **ab1198** 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
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Flow Cyt

**Application notes** Measurement of lambda light chain in human lysed whole peripheral blood or mononuclear cells

separated by density gradient.

Studies of clonality of B cell lymphomas in tissue.

Studies of clonality of B cell leukemias in peripheral blood.

Lambda (PE) immunofluorescence analysis can be performed on a flow cytometer equipped with an excitation source of 488nm and fitted with logarithmic amplifiers.

10µl of Lambda (PE) is sufficient for labelling of  $1 \times 10^6$  cells.

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## Target

### Relevance

All five immunoglobulin classes share the same basic four polypeptide chain structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. 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, the vast majority of which is bound to heavy-chain in immunoglobulin. In normal individuals low levels of free light-chain are present in serum (kappa, 1.6-15.2 mg/L; Lambda, 0.4-4.2mg/L), with the occurrence of multiple myeloma or other B-cell malignancies these levels can be greatly elevated and can be found at high levels in the urine (Bence-Jones proteins).

### Cellular localization

Cytoplasmic

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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