

Product datasheet

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

Overview

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	PBS with 0.5% BSA and 0.1% sodium azide
Clonality	Monoclonal
Clone number	GA170
Myeloma	unknown
Isotype	IgG2a
Light chain type	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.
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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 1×10^6 cells.

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

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