

Anti-Human Ig light chain antibody [MHK-49] ab48536

Overview

| | |
|----------------------------|---|
| Product name | Anti-Human Ig light chain antibody [MHK-49] |
| Description | Mouse monoclonal [MHK-49] to Human Ig light chain |
| Host species | Mouse |
| Specificity | This antibody is specific for both soluble and membrane human immunoglobulin light chain kappa. It does not react with human immunoglobulin light chain lambda or heavy chain mu. |
| Tested applications | Suitable for: ICC/IF, Flow Cyt, ELISA |
| Species reactivity | Reacts with: Human |
| Immunogen | Full length protein corresponding to Human Ig light chain. Human Ig cocktail |
| General notes | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.20 Preservative: 0.09% Sodium azide Constituent: PBS |
| Purity | Protein G purified |
| Clonality | Monoclonal |
| Clone number | MHK-49 |
| Isotype | IgG1 |
| Light chain type | kappa |

Applications

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab48536 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 |
|-------------|-----------|---|
| ICC/IF | | Use at an assay dependent concentration. |
| Flow Cyt | | Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| ELISA | | Use at an assay dependent concentration. This antibody can be used as primary or secondary reagent for immunofluorescent staining or ELISA analysis. |

Target

Relevance

There are only two types of light chain: kappa and lambda in mammals. Other types of light chains are found in lower vertebrates as the Ig-Light-Iota chain in Chondrichthyes and Teleostei. In each antibody, only one type is present and the two chains are identical. Each light chain has two successive domains: one constant and one variable domain. In humans 60% of light chains are kappa and 40% lambda, whereas in the mouse 95% of light chains are kappa. The amino acid sequences of lambda chains vary slightly at a few positions, allowing them to be classified into subtypes. The number of subtypes varies between species. Monoclonal immunoglobulin free light chains (FLC) are found in the serum and urine (Bence-Jones protein) of patients with a number of B-cell proliferative disorders, including multiple myeloma. Changes in serum FLC concentrations can provide a rapid and sensitive indication of response to treatment.

Cellular localization

Cell Membrane: single-pass type I membrane protein and Secreted

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