

Product Datasheet

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Anti-Human CD307e (FcRL5)

Purified

Monoclonal Antibody

Product Information

Product No.: I-1221
Clone: 509F6
RRID: AB_2893819
Isotype: Mouse IgG2a k
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 50946 recognizes human FcRL5 within the first 3 Ig domains. Clone 50946 does not cross-react with FcRL4.

Antigen Distribution:

FcRL5 is expressed on mature B cells and plasma cells.

Background:

FcRL5 antibody, 509F6, recognizes Fc receptor-like 5 (FcRL5), also known as immunoglobulin superfamily receptor translocation associated 2 (IRTA2), Fc receptor homolog 5 (FcRH5), and BXMAS1. FcRL5 is a 106 kDa type I transmembrane glycoprotein containing 9 Ig-like extracellular domains, a cytoplasmic ITAM-like consensus sequence, and two cytoplasmic ITIM-like sequences¹. FcRL5 is found on most mature B cells, with the highest levels on naive and memory B cells and plasma cells^{1,2}. FcRL5 is an IgG receptor and binds to all IgG isotypes³, resulting in the inhibition of BCR signaling through the recruitment of SH2 domain-containing tyrosine phosphatase 1 (SHP-1) after tyrosine phosphorylation of its two ITIMs⁴. B cell malignancies, including multiple myeloma, chronic lymphocytic leukemia, mantle cell lymphoma, and hairy cell leukemia, often exhibit aberrant FCRL5 expression, indicating FcRL5 as a potential biomarker or therapeutic target⁵⁻⁷.

Known Reactivity Species:

Human

Format:

Purified

Immunogen:

Cells transfected with Human FcRL5.

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using only In vitro cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this CD307e antibody for staining cells in flow cytometry is ≤ 0.125 μ g per 10^6 cells in a volume of 100 μ l. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

B IP

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Country of Origin

USA

References

1. M. D. Cooper., et al. (2001). Proc. Natl. Acad. Sci. USA 98: 9772–9777
2. Koeppen H., et al. (2006) Int Immunol. 18:1363-1373



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