

Product Datasheet

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Anti-Human CD20

Purified

Monoclonal Antibody

Product Information

Product No.: C1602
Clone: 2H7
RRID: AB_2828665
Isotype: Mouse IgG2b κ
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 2H7 recognizes an epitope on human CD20.

Antigen Distribution:

CD20 is present on human pre B lymphocytes and on B lymphocytes, except on plasma cells, and is expressed in tandem with surface IgM. It is also expressed in some follicular dendritic cells and at low levels on a T cell subset.

Background:

CD20 is a 33-37 kD transmembrane-spanning phosphoprotein that facilitates optimal B-cell immune response against T-independent antigens. It can exist in a complex with MHC class I, MHC class II, CD53, CD81, and CD82. However, CD20 can also form homo-oligomers. It has been suggested that homo-oligomerization of CD20 forms calcium ion channels in the plasma membrane of B cells. CD20 can be useful in diagnosing B-cell lymphomas and leukaemias, and is the target of mAbs in the treatment of all B cell lymphomas, leukemias, and B cell-mediated autoimmune diseases. Interestingly, studies show a link between the immune system's B cells and diabetes mellitus in which anti-CD20 antibodies rendered the T cell antibodies dysfunctional and, hence, unable to cause insulin desensitization by a B cell antibody-modulated autoimmune response.

Known Reactivity Species:

Human

Format:

Purified

Immunogen:

Purified Recombinant Human CD20 (>98%)

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.**

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this 2H7 antibody for staining cells in flow cytometry is $\leq 2.0 \mu\text{g}$ per 10^6 cells in a volume of 100 μl or 100 μl of whole blood. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

IHC (Frozen) The suggested concentration for this 2h7 antibody in IHC staining on frozen tissue is $\leq 5.0 - 10 \mu\text{g}$ per ml. Titration of the reagent is recommended for optimal performance for each application.

IP

Country of Origin

USA

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

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