Bulk Anti-Human CD56 (ERIC-1) Antibody

Bulk anti-human CD56 antibody (ERIC-1)

Product Benefits:

ichorbio's bulk anti-human CD56 antibody (ERIC-1) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from Bio X Cell at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD56

Clone:

ERIC-1

Isotype:

Mouse IgG1

Other Names:

Neural cell adhesion molecule 1, NCAM1

Uniprot:

P13591

Host:

Mouse

Species Reactivity:

Human

Specificity:

Bulk anti-human CD56 antibody (ERIC-1) recognizes Human CD56. Anti-Human CD56 recognizes the (Mr 180, 145, 125 kDa) isoforms of the human neural cell adhesion molecule (NCAM)

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

The CD56 (NCAM) antigen is expressed on most neuroectodermal derived cell lines, tissues, and tumors. NCAM is also known to be expressed on some mesodermally derived tissues such as muscle and on natural killer (NK) lymphocytes. The binding of ERIC-1 to both normal and neoplastic tissue is lost when tissues are conventionally fixed in formalin and embedded in paraffin. The epitope was preserved when exposed to dehydrating fixatives such as cold acetone (-20EC) for 5 min. CD56 is present on 10-25% of peripheral blood lymphocytes.

Background:

Anti-Human CD56 can be used in studies of the neural cell adhesion molecule. This antibody may also be used to study isoforms of NCAM expressed on different tumor types. Anti-CD56 (clone ERIC-1) works well in western blot for analysis of isoforms expressed. Anti-CD56 did not react with any of the leukemias or lymphomas tested

Immunogen:

Human Retinoblastoma tumor

Concentration:

1.0 - 5.0 mg/ml

Formulation:

0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and Azide free.

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

0.5 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Blocking, ELISA Capture, IHC (Frozen), IHC (Paraffin), Western Blot, Immunoprecipitation, Dot Blot

Application Notes:

ELISA Sandwich: This antibody is useful as the capture antibody in a sandwich ELISA. The suggested coating concentration is 80 ng/mL. Dot Blots: Immunoblotting: Recognizes 120, 140, and 180 kDa NCAM isoforms. Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Isotype Control:

Mouse IgG1 Isotype Control for In Vivo - Low Endotoxin [HKSP] (ICH2247)

Alternative Names:

- antigen MSK39 identified by monoclonal antibody 5.1H11 antibody
- antigen recognized by monoclonal antibody 5.1H11 antibody
- CD56 antibody
- cell adhesion molecule, neural, 1 antibody
- MSK 39 antibody
- MSK39 antibody
- N-CAM-1 antibody
- NCAM 1 antibody
- NCAM antibody
- NCAM C antibody
- NCAM-1 antibody
- NCAM1 antibody
- NCAM1_HUMAN antibody
- NCAMC antibody
- Neural cell adhesion molecule 1 antibody
- Neural cell adhesion molecule NCAM antibody
- OTTHUMP00000235666 antibody