Leinco Technologies, Inc.
excellence in early discovery research™

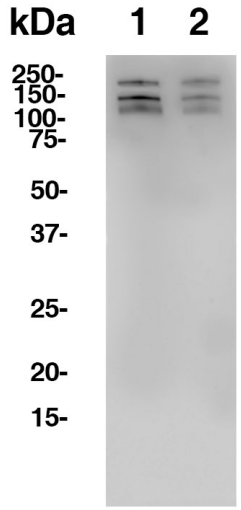
Human CD56 (NCAM) Antibody

Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C374
Clone:	ERIC-1
RRID:	AB_2829686
Isotype:	Mouse IgG1
Storage:	Sterile 2° to 8°C



Lane 1: 20 ug human cerebellum membrane lysate

Lane 2: 10 ug human cerebellum membrane lysate

Primary: anti-human CD56 antibody (ERIC-1) at 5 ug/ml (Prod. No. C374)

Secondary: HRP labeled goat anti-mouse at 1:1000 dilution (Prod. No. M1114)

Predicted band size: 120, 140, 180 kDa isoforms

Product Description

Specificity:
Mouse Anti-Human CD56 (Clone ERIC-1) recognizes Human CD56. This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype. Anti-Human CD56 recognizes the (Mr 180, 145, 125 kDa) isoforms of the human neural cell adhesion molecule (NCAM).[1]

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 muscle1 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.1

Known Reactivity Species:
Human

Format:
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Immunogen:
Human Retinoblastoma tumor

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Formulation
This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity
>95% by SDS-PAGE and HPLC

Endotoxin
< 1.0 EU/mg as determined by the LAL method

Storage and Stability
Functional grade preclinical antibodies may be stored sterile as received at 2° to 8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles

Product Preparation
Functional grade preclinical antibodies are manufactured in an animal free facility using 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.

Country of Origin
USA

References
1) Bourne, K. et al. (1991) J. of Neuro-Oncology 10:111