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32-13071: CD1A Human

Alternative Name : T-cell surface antigen T6/Leu-6, hTa1 thymocyte antigen, R4, T6; CD1, FCB6, HTA1, CD1A.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered colorless solution.
CD1a is a transmembrane glycoproteins, which is structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. CD1a mediates the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to the plasma membrane and to recycling vesicles of the early endocytic system. Alternatively spliced transcript variants have been observed, but their biological validity has not been determined.
CD1A produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 291 amino acids (19-300a.a.) and having a molecular mass of 33.2kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). CD1A is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	CD1A protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4), and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	ADPDGLKEPL SFHVTWIASF YNHSWKQNLV SGWLSDLQTH TWDSNSSTIV FLCPWSRGNF SNEEWKELET LFRIRTIRSF EGIRRYAHEL QFEYPFEIQV TGGCELHSGK VSGSFLQLAY QGSDFVSFQN NSWLPYPVAG NMAKHFCKVL NQNQHENDIT HNLLSDTCPR FILGLLDAGK AHLQRQVKPE AWLSHGPSPG PGHLQLVCHV SGFYPKPVWV MWMRGEQEQQ GTQRGDILPS ADGTWYLRAT LEVAAGEAAD LSCRVKHSSL EGQDIVLYWE HHSSVHHHHH H.