

Full-Length

CD1A (Human) Recombinant Protein (P01)

Catalog # H00000909-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CD1A full-length ORF (AAH31645, 1 a.a. - 311 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWNWLKEPLSFHVWIASFYNHWSWKQNLVSGWLSDLQHTWDSNSSTIVFLWPWSRGNFSNEE
WKELETFRIRTI RSFEGIRRYAHELQFEYPFEIQVTGGCELHSGKVS GSFLQLAYQGSDFVSFQNN
SWLPYPVAGNMAKHFCVKVLNQNHENDITHNLLSDTCPRFILGLLDAGKAHLQRQVKPEAWLSH
GPSPGPGHLQLVCHVSGFY PKPVW/MWMRGEQEQQGTQRGDILPSADGTWYLRATLEVAAGE
AADLSCRVKHSSLEGQDMVLYWEHHSSVGFILAVIVPLLLIGLALWFRKRCFC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59.95

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CD1A

Entrez GeneID [909](#)

GeneBank Accession# [BC031645](#)

Protein Accession# [AAH31645](#)

Gene Name CD1A

Gene Alias CD1, FCB6, HTA1, R4, T6

Gene Description CD1a molecule

Omim ID [188370](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate 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. [provided by RefSeq]

Other Designations CD1A antigen|CD1A antigen, a polypeptide|OTTHUMP00000018907|T-cell surface antigen T6/L eu-6|T-cell surface glycoprotein CD1a|cluster of differentiation 1 A|cortical thymocyte antigen CD1 A|differentiation antigen CD1-alpha-3|epidermal dendritic cell marker

Publication Reference

- [Human binding molecule against CD1A.](#)

Throsby, Mark; Van Meijer, Marja; Germeraad V, Wilfred T. ; Arceci, Robert J. ; Kruisbeek, Ada M.

United States Patent Application 2006 Nov, US20060257397A1.

Application: Func, Anti-CD1a Antibody

Pathway

- [Hematopoietic cell lineage](#)

Disease

- [Campylobacter Infections](#)
- [Genetic Predisposition to Disease](#)
- [Guillain-Barre Syndrome](#)
- [Lung Diseases](#)
- [Mycobacterium Infections](#)
- [Polyradiculoneuropathy](#)