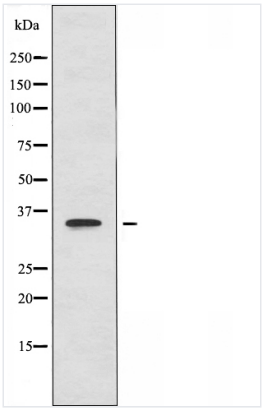
CD1E Antibody – Rabbit Polyclonal

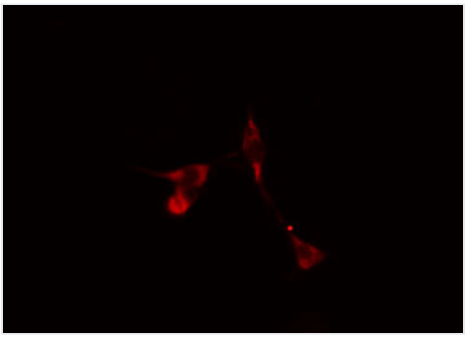
PRODUCT OVERVIEW

Product Name	CD1E, Polyclonal Antibody
Full Product Name	CD1E Antibody
Product Gene Name	anti-CD1E antibody
Product Synonym Names	CD_antigen=CD1e; CD1A; CD1e; CD1e antigen; CD1E antigen, e polypeptide; CD1e molecule; CD1E_HUMAN; Differentiation antigen CD1-alpha-3; hCD1e; Leukocyte differentiation antigen; R2; R2G1; sCD1e; soluble; T-cell surface glycoprotein CD1e; T-cell surface glycoprotein CD1e, membrane-associated; T-cell surface glycoprotein CD1e, soluble
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	CD1E antibody detects endogenous levels of total CD1E
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	CD1E peptide (MBS9624729) is used for blocking the activity of CD1E antibody (MBS9606012)
Molecular Weight	Observed: 36 kD Predicted: 44 kDa
3D Structure	ModBase 3D Structure for P15812
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide
Subcellular Location	Endosome; Golgi Apparatus; Lysosome
Tissue Specificity	Expressed on cortical thymocytes, dendritic cells, Langerhans cells, on certain T-cell leukemias, and in various other tissues.
Predicted Cross Reactivity	**Pig, Dog**
Similarity	Pig (80%), Dog (90%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD1E antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-CD1E antibody	WB: 1:500-1:1000 IF/ICC: 1:100-1:500

Related Product Information for anti-CD1E antibody	Function: T-cell surface glycoprotein CD1e, soluble binds diacetylated lipids, including phosphatidyl inositides and diacylated sulfoglycolipids, and is required for the presentation of glycolipid antigens on the cell surface. The membrane-associated form is not active. Subunit Structure: Heterodimer with B2M (beta-2-microglobulin). The association with B2M appears to be facilitated by the presence of the propeptide. Post-translational Modifications: Mono-ubiquitinated. Proteolytically cleaved in late endosomes to yield a soluble form.
Other Notes	Small volumes of anti-CD1E antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD1E purchase	MBS9606012 is an antibody targeting CD1E. Also known as CD1E Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CD1E antibody
Western blot analysis of extracts from HuvEc cells using CD1E antibody.



Immunofluorescene (IF) of anti-CD1E antibody
MBS9606012 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD1E. It may not necessarily be applicable to this product.

NCBI GI #	110618230
NCBI GeneID	913
NCBI Accession #	NP_001036048.1
UniProt Primary Accession #	P15812
UniProt Secondary Accession #	Q5TDJ9; Q5TDK3; Q5TDK4; Q5TDK5; Q5TDK6; Q5TDK8; Q5TDL1; Q712E4; Q712E5; B4DZV3; E7EP01
UniProt Related Accession #	P15812
GenBank Nucleotide #	NM_001042583.2
NCBI Official Full Name	T-cell surface glycoprotein CD1e, membrane-associated isoform b
NCBI Official Synonym Full Names	CD1e molecule
NCBI Official Symbol	CD1E
NCBI Official Synonym Symbols	R2; CD1A
UniProt Protein Name	T-cell surface glycoprotein CD1e, membrane-associated
UniProt Synonym Protein Names	R2G1; CD_antigen: CD1e
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD1E
UniProt Synonym Gene Names	hCD1e; sCD1e

NCBI Protein Information	T-cell surface glycoprotein CD1e, membrane-associated
NCBI Summary for CD1E	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 within Golgi compartments, endosomes, and lysosomes, and is cleaved into a stable soluble form. The soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members. Many alternatively spliced transcript variants encoding different isoforms have been described. Additional transcript variants have been found; however, their biological validity has not been determined. [provided by RefSeq, Jun 2010]
UniProt Comments for CD1E	T-cell surface glycoprotein CD1e, soluble binds diacetylated lipids, including phosphatidyl inositides and diacylated sulfoglycolipids, and is required for the presentation of glycolipid antigens on the cell surface. The membrane-associated form is not active.
Research Articles on CD1E	**1.** There was no association between polymorphisms of CD1E genes and the susceptibilities to Guillain-Barre syndrome.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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