



# CD1E Monoclonal Antibody

<b>Catalog No</b>	BYmab-13981
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	CD1E
<b>Protein Name</b>	T-cell surface glycoprotein CD1e membrane-associated
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the C-terminal region of human CD1E. AA range:321-370
<b>Specificity</b>	CD1E Monoclonal Antibody detects endogenous levels of CD1E protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CD1E; T-cell surface glycoprotein CD1e, membrane-associated; hCD1e; R2G1; CD1e
<b>Observed Band</b>	42kD
<b>Cell Pathway</b>	[T-cell surface glycoprotein CD1e, membrane-associated]: Golgi apparatus membrane; Single-pass type I membrane protein. Early endosome. Late endosome. Predominantly localized in the trans-Golgi network in immature dendritic cells, and as a cleaved, soluble protein in the lysosome lumen of mature dendritic cells.; [T-cell surface glycoprotein CD1e, soluble]: Lysosome lumen.
<b>Tissue Specificity</b>	Expressed on cortical thymocytes, dendritic cells, Langerhans cells, on certain T-cell leukemias, and in various other tissues.
<b>Function</b>	function:Required for the presentation of glycolipid antigens on the cell surface.,PTM:Mono-ubiquitinated.,PTM:Proteolytically cleaved in endosomes to yield a soluble form.,similarity:Contains 1 Ig-like (immunoglobulin-like) domain.,subcellular location:Predominantly localized in the trans-Golgi network in immature dendritic cells, and as a cleaved, soluble protein in the lysosome lumen of mature dendritic cells.,subunit:Heterodimer with B2M (beta-2-microglobulin).,tissue specificity:Expressed on cortical thymocytes,

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#### Background

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 desc

#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using CD1E Monoclonal Antibody