



CD1D Monoclonal Antibody

Catalog No	YP-mAb-13980
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CD1D
Immunogen	Synthesized peptide derived from Antigen-presenting glycoprotein CD1d at AA range: 161-210
Specificity	CD1D Monoclonal Antibody detects endogenous levels of CD1D protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CD1A;CD1D;CD1d molecule;R3;R3G1;Antigen-presenting glycoprotein CD1d
Observed Band	37kD
Calculated Molecular Weight	37kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Basolateral cell membrane ; Single-pass type I membrane protein . Endosome membrane ; Single-pass type I membrane protein . Lysosome membrane ; Single-pass type I membrane protein . Endoplasmic reticulum membrane ; Single-pass type I membrane protein . Subject to intracellular trafficking between the cell membrane, endosomes and lysosomes. .
Tissue Specificity	Expressed on cortical thymocytes, on certain T-cell leukemias, and in various other tissues.
Function	function:Antigen-presenting protein that binds self and non-self glycolipids and presents them to T-cell receptors on natural killer T-cells.,miscellaneous:During protein synthesis and maturation, CD1 family members bind endogenous lipids that are replaced by lipid or glycolipid antigens when the proteins are internalized and pass through endosomes, before trafficking back to the cell surface.,similarity:Contains 1 Ig-like (immunoglobulin-like) domain.,subcellular



location: Subject to intracellular trafficking between the cell membrane, endosomes and lysosomes., subunit: Heterodimer with B2M (beta-2-microglobulin). Interacts with MHC II., tissue specificity: Expressed on cortical thymocytes, on certain T-cell leukemias, and in various other tissues.,

Background

This gene encodes a divergent 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 late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016],

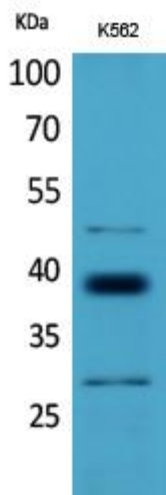
matters needing attention

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 CD1D Monoclonal Antibody