

# CD1d Monoclonal Antibody (NOR3.2)

Catalog NumberMA1-80007

Product data sheet

Details		Species Reactivity	
Size	200 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Clone	NOR3.2	Immunoprecipitation (IP)	Assay-dependent
Immunogen	Beta G2 - CD1d fusion protein.	Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	4°C or -20°C if preferred		

## Background/Target Information

CD1d is a 49 kDa heavy chain associated with Beta 2 microglobulin on cortical thymocytes. Beta 2 microglobulin independent expression of CD1d has also been demonstrated on human intestinal epithelial cells. CD1d is the sole group 2 member of the CD1 family of major histocompatibility (MHC) like glycoproteins. The CD1d 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 the CD1d gene localizes to late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail. Diseases associated with CD1D include Mycobacterium Malmoense and Autoimmune Disease.

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PubMed References For CD1d Monoclonal Antibody (NOR3.2)

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
Not Applicable / 1:100	MA1-80007 was used in immunohistochemistry - paraffin section to analyze differentially expressed granzyme inhibitors in pediatric primitive neuroectodermal tumors of the central nervous system
	PloS one ( 2016; 11: )
	<b>"Pediatric Primitive Neuroectodermal Tumors of the Central Nervous System Differentially Express Granzyme Inhibitors."</b> Author(s):Vermeulen JF,van Hecke W,Spliet WG,Villacorta Hidalgo J,Fisch P,Broekhuizen R,Bovenschen N PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0151465">http://dx.doi.org/10.1371/journal.pone.0151465</a>

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