

CD1a Monoclonal Antibody (SP157)

Catalog Number

MA5-16333

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Monoclonal	Immunohistochemistry (Paraffin) (IHC (P))	Dilution * 1:100
Type	Antibody	* 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.	
Clone	SP157		
Immunogen	Synthetic peptide derived from the internal region of human CD1a protein.		
Conjugate	Unconjugated		
Form	Liquid		
Purification	Protein A/G		
Storage buffer	PBS, pH 7.6, with 1% BSA		
Contains	<0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Heat-mediated antigen retrieval is recommended prior to staining, using a 1mM EDTA buffer, pH 8.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 10 min at room temperature. A suggested positive control is thymus or skin tissue.

Background/Target Information

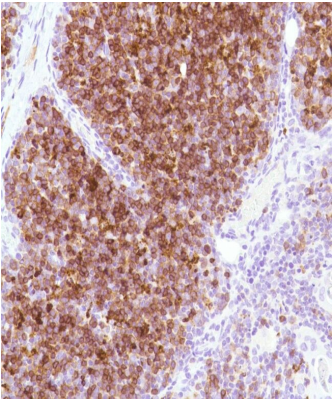
CD1a is a non-polymorphic MHC Class 1 related cell surface glycoprotein, expressed in association with Beta 2 microglobulin. CD1a is expressed by cortical thymocytes, Langerhan's cells and by interdigitating cells. CD1a is also expressed by some malignancies of T cell lineage and in histiocytosis X. CD1a is expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues. CD1a is 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. CD1a localizes to the plasma membrane and recycles vesicles of the early endocytic system. At least five CD1 genes (CD1a, b, c, d, and e) are identified. Alternatively spliced transcript variants of CD1a have been observed, but their biological validity have not been determined.

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CD1a Antibody (MA5-16333) in IHC (P)
Immunohistochemical (paraffin) analysis of CD1a using anti-CD1a Monoclonal Antibody (Product # MA5-16333) in Thymus Cancer Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:100.

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