

CD1A (MTB1) Mouse mAb

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-Bond, IHC-P	H	Endogenous	Mouse IgG1 kappa	#P06126	909
Product Usage Information	Application				Dilution
	IHC Leica Bond				1:50
	Immunohistochemistry (Paraffin)				1:50
Storage	Supplied as liquid tissue culture supernatant containing sodium azide as a preservative. Stable for 6 months when stored at 4°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity	CD1A (MTB1) Mouse mAb recognizes endogenous levels of CD1A protein. Non-specific staining was observed in testis by immunohistochemistry.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a prokaryotic recombinant fusion protein corresponding to the full external domain of human CD1A protein.				
Background	CD1A is a type 1 cell surface transmembrane glycoprotein structurally similar to MHC Class 1 that is expressed in association with β 2-microglobulin (1). CD1A is a member of the CD1 family and has been shown to mediate the presentation of primary lipid and glycolipid antigens to T cell lymphocytes for recognition (1,2). It is expressed by Langerhans' cells, cortical double positive and single positive thymocytes, and by interdigitating dendritic cells (1). CD1A has been shown to identify T cell development (3).				
Background References	1. Moody, D.B. and Suliman, S. (2017) <i>F1000Res</i> 6, 1909. 2. Moody, D.B. and Porcelli, S.A. (2003) <i>Nat Rev Immunol</i> 3, 11-22. 3. Siddiqui, S. et al. (2015) <i>Front Immunol</i> 6, 337.				

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: Human
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