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CD1A (MTB1) Mouse mAb**Cell Signaling**
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Applications: IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1 kappa	UniProt ID: #P06126	Entrez-Gene Id: 909
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Product Usage Information**Application**IHC Leica Bond
Immunohistochemistry (Paraffin)**Dilution**1:50
1:50**Storage**Supplied as liquid tissue culture supernatant containing sodium azide as a preservative. Stable for 6 months when stored at 4°C. *Do not aliquot the antibody.***Specificity / Sensitivity**

CD1A (MTB1) Mouse mAb recognizes endogenous levels of CD1A protein. Non-specific staining was observed in brain 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) *F1000Res* 6, 1909.
2. Moody, D.B. and Porcelli, S.A. (2003) *Nat Rev Immunol* 3, 11-22.
3. Siddiqui, S. et al. (2015) *Front Immunol* 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 **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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