

CD45RB Monoclonal Antibody (MEM-143)

Catalog Number      MA1-19348

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	MEM-143	Flow Cytometry (Flow)	4 µg/mL
Immunogen	Human peripheral blood lymphocytes.	Immunohistochemistry (Paraffin) (IHC (P))	10 µg/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.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS, pH 7.4		
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

Background/Target Information

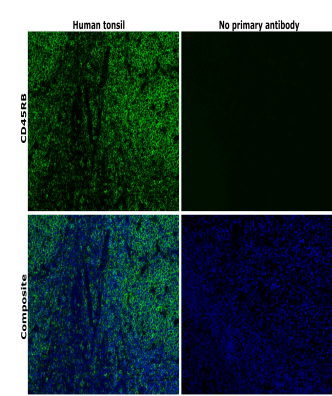
CD45RB is a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45 isoforms differ in their extracellular domains, but share identical transmembrane and cytoplasmic domains. CD45 isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. CD45RB is expressed in microglia and inflammatory cells. In addition to involvement in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is involved in DNA fragmentation during apoptosis. CD45 is expressed on cells of the human hematopoietic lineage with the exception of mature red cells.

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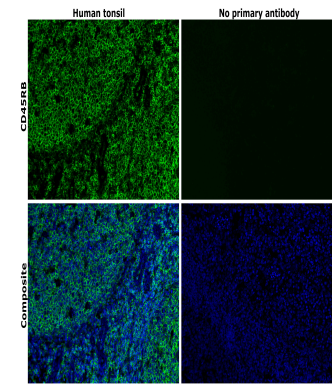
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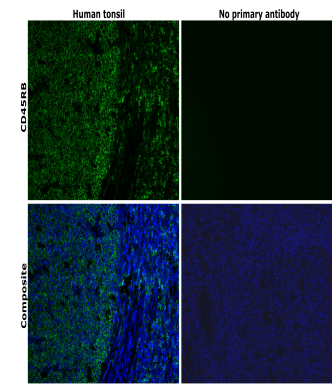
**CD45RB Antibody (MA1-19348) in IHC (P)**

Immunohistochemical analysis of CD45RB was performed using formalin-fixed paraffin-embedded human tonsil tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - High pH (10X) (Product # 00-4956-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 3% H2O2 for 1 hour at room temperature followed by 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without CD45RB Monoclonal Antibody (MEM-143) (Product # MA1-19348) at 2 µg/mL in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Alexa Fluor™ 488 Tyramide SuperBoost™ Kit, goat anti-mouse IgG (Product # B40912). Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.



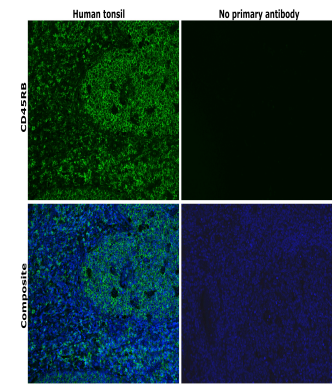
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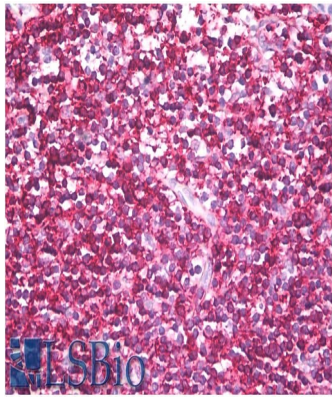
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**CD45RB Antibody (MA1-19348) in IHC (P)**

Immunohistochemistry staining of human tonsil (paraffin sections) using anti-CD45RB (clone MEM-143) Monoclonal antibody (Product # MA1-19348).

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