



CD45 Monoclonal Antibody (YAML501.4)

Catalog Number: MA5-17687

Product Data Sheet

Details		Species Reactivity	
Size	200 ug	Tested species reactivity	Human
Host / Isotype	Rat / IgG2a	Tested Applications	Dilution *
Class	Monoclonal	Western Blot (WB)	Assay Dependent
Type	Antibody	Immunofluorescence (IF)	1:500
Clone	YAML501.4	Immunocytochemistry (ICC)	1:500
Immunogen	Rat monoclonal antibody raised against acute myeloid leukemia cells of human origin.	Immunohistochemistry (Paraffin) (IHC (P))	1:500
Form	Liquid	Flow Cytometry (Flow)	0.5 ug/10 ⁶ cells
Concentration	1mg/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.	
Purification	Protein G		
Storage Buffer	PBS		
Contains	0.02% 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

MA5-17687 targets CD45/PTPRC in FACS and WB applications and shows reactivity with Human samples.

The MA5-17687 immunogen is rat monoclonal antibody raised against acute myeloid leukemia cells of human origin.

Background/Target Information

CD45 is a family of single chain transmembraneous glycoproteins consisting of at least four isoforms which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions.

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