

# CD45 Monoclonal Antibody (YAML501.4)

Product Details	
Size	200 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	YAML501.4
Conjugate	Unconjugated
Immunogen	Rat monoclonal antibody raised against acute myeloid leukemia cells of human origin.
Form	Liquid
Concentration	1 mg/mL
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.
RRID	AB_2539077

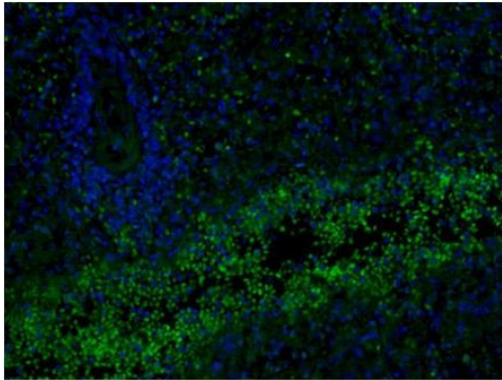
Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:500	-
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:500	3 Publications
Flow Cytometry (Flow)	0.5 µg/1x10^6 cells	-

## Product Specific Information

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

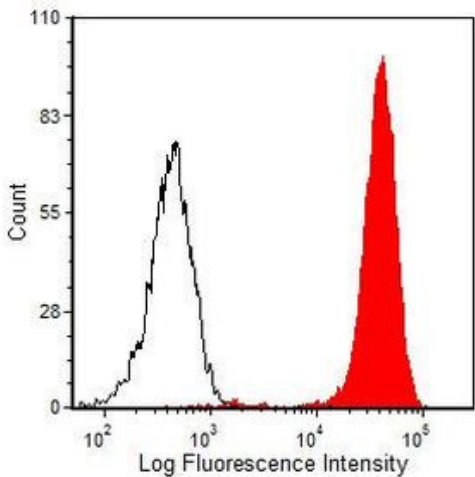
The MA5-17687 immunogen is rat monoclonal antibody raised against acute myeloid leukemia cells of human origin.

Product Images For CD45 Monoclonal Antibody (YAML501.4)



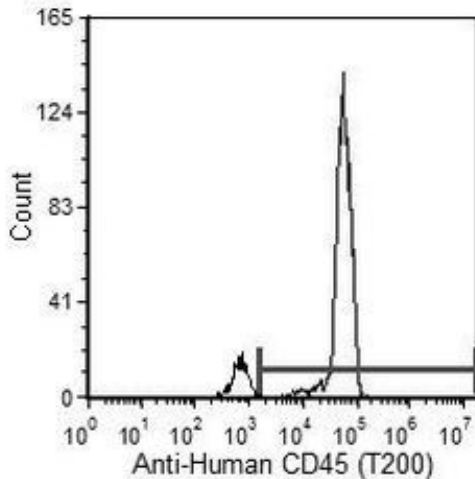
**CD45 Antibody (MA5-17687) in IHC (P)**

Immunohistochemical staining of paraformaldehyde-fixed paraffin-embedded human spleen sections at 400x magnification with DAPI counterstain. Primary antibody used was a CD45/PTPRC monoclonal antibody (clone YAML501.4) at a 1:500 dilution, followed by secondary antibody was a 488 fluorescent conjugated Goat anti-rat at a 1:500 dilution and Normal Goat Serum (blocking)



**CD45 Antibody (MA5-17687) in Flow**

Flow cytometric analysis of human peripheral blood lymphocytes were stained using a CD45/PTPRC monoclonal antibody (Product # MA5-17687) (filled histogram) or rat IgG2a isotype control (open histogram).



**CD45 Antibody (MA5-17687) in Flow**

Flow cytometric analysis of Human peripheral blood leukocytes staining using anti-CD45/PTPRC Monoclonal Antibody (Product # MA5-17687) at a 0.5 µg/10<sup>6</sup> cells dilution.

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Immunohistochemistry (8)

Scientific reports	Year 2022
Expression of antioxidant enzymes in lesions of multiple sclerosis and its models.	Species Human
"Published figure using CD45 monoclonal antibody (Product # MA5-17687) in Immunohistochemistry"	Dilution 1:200
Authors: Moezzi D,Dong Y,Jain RW,Lozinski BM,Ghorbani S,D'Mello C,Wee Yong V	
Nature communications	Year 2022
Versican promotes T helper 17 cytotoxic inflammation and impedes oligodendrocyte precursor cell remyelination.	Species Mouse
"MA5-17687 was used in Immunohistochemistry to explore high versican-V1 expression in multiple sclerosis (MS) lesions with deficient premyelinating oligodendrocytes, and highlight its selective upregulation amongst CSPG members in experimental autoimmune encephalomyelitis (EAE) lesions modeling MS."	
Authors: Ghorbani S,Jelinek E,Jain R,Buehner B,Li C,Lozinski BM,Sarkar S,Kaushik DK,Dong Y,Wight TN,Karimi-Abdolrezaee S,Schenk GJ,Strijbis EM,Geurts J,Zhang P,Ling CC,Yong VW	

View more IHC references on thermofisher.com

Immunohistochemistry (Frozen) (1)

Scientific reports	Year 2022
Expression of antioxidant enzymes in lesions of multiple sclerosis and its models.	Species Human
"Published figure using CD45 monoclonal antibody (Product # MA5-17687) in Immunohistochemistry"	Dilution 1:200
Authors: Moezzi D,Dong Y,Jain RW,Lozinski BM,Ghorbani S,D'Mello C,Wee Yong V	

Immunocytochemistry (3)

Bio-protocol	Year 2023
Safety Profiling of Tumor-targeted T Cell-Bispecific Antibodies with Alveolus Lung- and Colon-on-Chip.	Species Human
"MA5-17687 was used in Immunocytochemistry-immunofluorescence to present a protocol which shows the unprecedented capability of two human Organs-on-Chip models to evaluate the safety profile of T cell-bispecific antibodies (TCBs) targeting tumor antigens."	Dilution 1:100
Authors: Kerns JS,Belgur C,Kanellias M,Manatakis DV,Barrile R,Tien-Street W,Ewart L,Gjorevski N,Cabon L	

View more ICC/IF references on thermofisher.com

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