

Datasheet for 200-302-N68**CD45 Fluorescein Antibody****Overview**

Description:	Anti-CD45 (MOUSE) Fluorescein Conjugated Monoclonal Antibody - 200-302-N68
Item No.:	200-302-N68
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	The HI30 antibody reacts with human CD45, one of the most abundant hematopoietic markers and one that is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). CD45 is a protein tyrosine phosphatase existing in several isoforms, each being generated and expressed in cell-specific patterns. With its broad cell distribution, CD45 is critical for many leukocyte functions, regulating signal transduction and cell activation associated with the T cell receptor, B cell receptor, and IL-2 receptor. Other forms of CD45, with restricted cellular expression, include CD45R (B220), CD45RA, CD45RB, CD45RO and others. The HI30 antibody is widely used as a marker for human CD45 expression on T cells, B cells, monocytes, macrophages, and NK cells.
Synonyms:	Receptor-type tyrosine-protein phosphatase C, Leukocyte common antigen, CD45, PTPRC
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	HI30
Format:	IgG1
F/P Ratio:	2-8

Target Details

Gene Name:	PTPRC
Reactivity:	Human

Immunogen:	Anti-CD45 Antibody (Monoclonal) was produced by repeated immunizations with CD45 antigen.
Purity/Specificity:	Fluorescein conjugated CD45 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD45. Reactivity is observed against human CD45. Cross reactivity is observed with Chimpanzee. Reactivity with CD45 from other sources has not been tested. Anti-CD45 is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P08575 • NCBI - NP_002829.3 • GenelD - 5788

Application Details

Tested Applications:	FC
Application Note:	Anti-CD45 is tested for Flow Cytometry and is useful for Immunoprecipitation, Immunohistochemistry, and Western Blot. Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	5 uL/test/1x10e5 to 1x10e8 cells
IHC:	User Optimized
IP:	User Optimized
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.05 mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

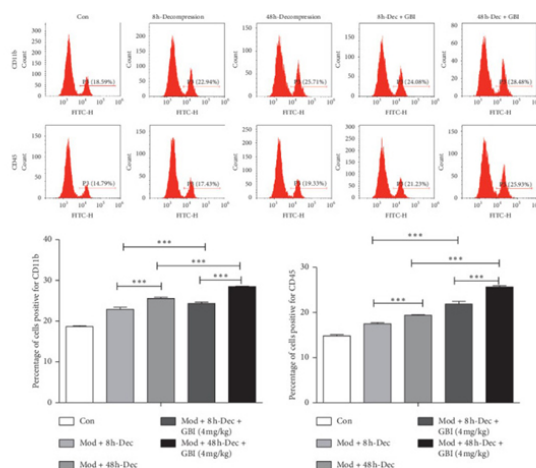
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.

Expiration: Expiration date is six (6) months from date of receipt.

Images

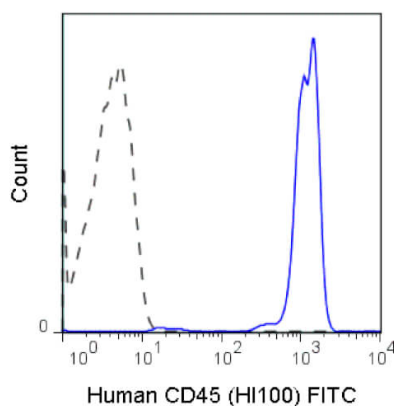


Flow Cytometry

Inflammatory (macrophage) infiltration. Flow cytometry of the percentage of cells positive for surface markers of glial cells (CD11b and CD45). The experiments were performed 3 days after SCI. Fig 4. PMID: 32565871

Flow Cytometry

Flow Cytometry of Mouse anti-CD45 Fluorescein Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (Dotted line) FITC Mouse IgG1 isotype control; (Blue line) Fluorescein Anti-CD45 mouse antibody using 5 ul (0.25ug).



References

- Guo X. et al. Effects of Ginkgo biloba on Early Decompression after Spinal Cord Injury. *Evid Based Complement Alternat Med.* (2020)

Disclaimer

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