

redFluor™ 710 Anti-Human CD45 (HI30) Antibody
Catalog # ATB10389**Specification****redFluor™ 710 Anti-Human CD45 (HI30) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 uL (0.25 ug)/test
Reactivity	Human
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2
Host	Mouse

redFluor™ 710 Anti-Human CD45 (HI30) Antibody - Additional Information

Gene ID	5788
Gene Name	PTPRC
Alternative Name(s)	
Leukocyte Common Antigen, LCA, Ly-5	

Format

redFluor™ 710

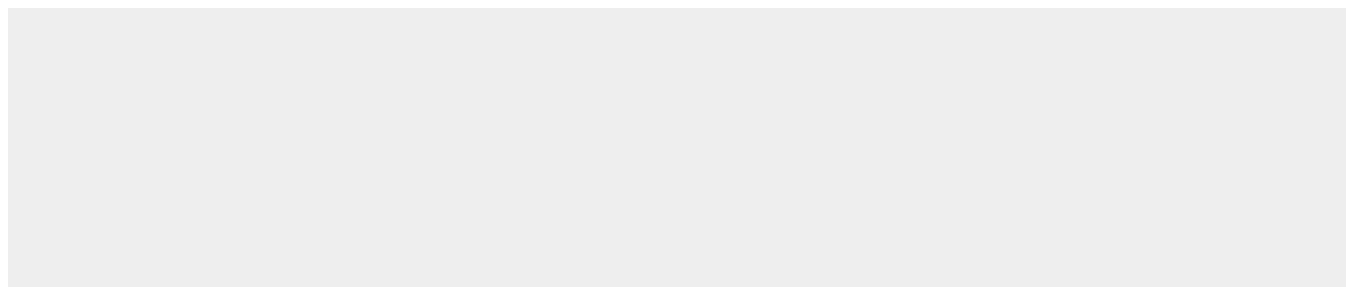
Storage Conditions

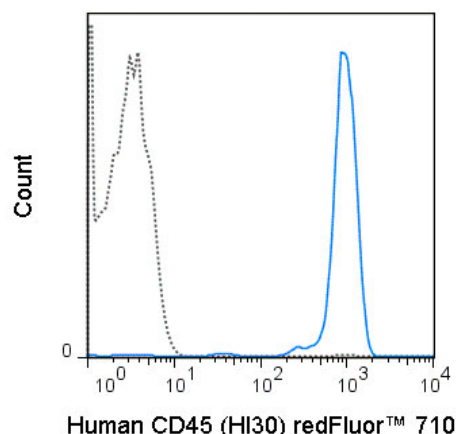
2-8°C protected from light

redFluor™ 710 Anti-Human CD45 (HI30) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

redFluor™ 710 Anti-Human CD45 (HI30) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 μ L (0.25 μ g) redFluor™ 710 Anti-Human CD45 (ATB10389) (solid line) or 0.25 μ g redFluor™ 710 Mouse IgG1 isotype control (dashed line).

redFluor™ 710 Anti-Human CD45 (HI30) Antibody - 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.

redFluor™ 710 Anti-Human CD45 (HI30) Antibody - References

Strowig T, Rongvaux A, Rathinam C, Takizawa H, Borsotti C, Philbrick W, Eynon EE, Manz MG, and Flavell RA. 2011. Proc. Natl. Acad. Sci. 108: 13218-13223. (Flow Cytometry)

Kim M-H, Suh H-S, Si Q, Terman BE, and Lee SC. 2006. J. Virol. 80: 62-72. (in vitro blocking, Western Blot)

Zhang M and Varki A. 2004. Glycobiology. 14: 939-949. (Immunoprecipitation)

Gelbmann CM, Leeb SN, Vogl D, Maendel M, Herfarth H, Scholmerich J, Falk W, and Rogler G. 2003. Gut. 52:1448-1456. (Immunocytochemistry)

Yamada T, Zhu D, Saxon A, and Zhang K. 2002. J. Biol. Chem. 277(32): 28830-28835. (in vitro blocking)

Esser MT, Graham DR, Coren LV, Trubey CM, Bess JW, Arthur LO, Ott DE, and Lifson JD. 2001. J. Virol. 75(13):6173-6182. (Western Blot)

Goto E, Kohrogi H, Hirata N, Tsumori K, Hirosako S, Hamamoto J, Fujii K, Kawano O, and Ando M. 2000. Am. J. Respir. Cell Mol. Biol. 22: 405. (Immunohistochemistry – frozen tissue)

Esser MT, Graham DR, Coren LV, Trubey CM, Bess JW, Arthur LO, Ott DE, and Lifson JD. 2001. J.

Virol. 75(13)6173-6182. (Western Blot)