

TECHNICAL DATA SHEET

# Purified Anti-Human CD45 (HI30)

Catalog Number: 70-0459

## PRODUCT INFORMATION

**Contents:** Purified Anti-Human CD45 (HI30)

**Isotype:** Mouse IgG1, kappa

**Concentration:** 0.5 mg/mL

**Clone:** HI30

**Reactivity:** Human

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% Na<sub>3</sub>N, pH7.2

## DESCRIPTION

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.

## PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

## APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

## 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, Hirotsako 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)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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