

Human CD45 antibody

Catalog Number: ACD0802

PRODUCT INFORMATION

Catalog number

ACD0802

Clone No.

3G4

Product type

Monoclonal Antibody

UnitProt No.

P08575

NCBI Accession No.

NM_002838

Alternative Names

protein tyrosine phosphatase, receptor type, C (PTPRC), CD45, B220, CD 45, CD45 antigen, GP180, L CA, LCA, Leukocyte common antigen, LY5, Protein tyrosine phosphatase receptor type C, Protein tyrosine phosphatase receptor type c polypeptide, PTPRC, SCID due to PTPRC deficiency, T200, T200 glycoprotein,

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human CD45 (1029-1249aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, FACS

Usage

The antibody has been tested by ELISA and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

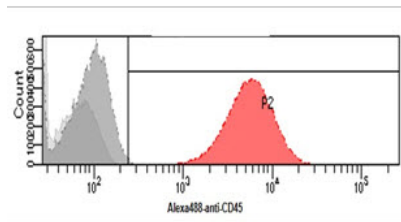
CD45 belongs to a family of heavily glycosylated, high molecular weight transmembrane glycoproteins expressed on all cells of haematopoietic origin. Structurally heterogeneous, CD45 consists of a family of eight isoforms ranging from 180, 000 to 220, 000 MW generated by alternative splicing of three exons differentially expressed on subpopulation of lymphocytes. CD45 protein tyrosine phosphatase activity plays a central role in T-cell activation. CD45 plays an important role in signal transduction inhibition or upregulation of various immunological functions,

General References

- Evgueni K , et al., (2005) Immunogenetics 57(5):374-383
Holmes N., (2006) Immunology 117(2):145-155
Francois S , et al., (2004) Immunology 113(4):441-452
Tara S , et al., (2003) Proc Natl Acad Sci U S A 100(10):5997-6002

DATA

Flow cytometry (FACS)



Flow cytometry analysis of CD45 in Jurkat cells. The cell was stained with ACD0802 at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).