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AM08044RT-N Monoclonal Antibody to CD45 / LCA - PE-TXRD

Alternate names: L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase

C, T200

Quantity: 0.1 mg
Concentration: 0.1 mg/ml

Background: CD45 is a family of single chain transmembraneous glycoproteins consisting of at

least four isoforms (220, 205, 190, 180 kDa) which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage (including hematopoietic stem cells) with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions. Antibodies recognising a common epitope on all of the isoforms are termed CD45 while those recognising only individual isoforms are

termed CD45RA or CD45RO etc.

 Uniprot ID:
 P06800

 NCBI:
 10090

 Host / Isotype:
 Rat / IgG2b

 Clone:
 13/2.3

Format: State: Liquid purified lg fraction.

Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing

agent.

Label: PE-TXRD – R-Phycoerythrin-Texas Red

Applications: Flow Cytometry: $\langle / = 0.2 \,\mu\text{g}/10e6 \,\text{cells.}$ (Ref.4,5)

Immunoprecipitation.(Ref.4)

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: This antibody recognizes a framework epitope present on all CD45 isoforms. (Ref.3-6)

Species: Mouse.

Other species not tested.

Storage: Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Berggreen E, Haug SR, Mkonyi LE, Bletsa A. Characterization of the dental lymphatic

system and identification of cells immunopositive to specific lymphatic markers. Eur J Oral Sci. 2009 Feb;117(1):34-42. doi: 10.1111/j.1600-0722.2008.00592.x. PubMed

PMID: 19196316.



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- 5. Trowbridge, I.S. 1978. J. Exp. Med. 148:313.
- 6. Trowbridge, I.S and M.L. Thomas. 1994. Ann. Rev. Immunol. 12:85