

## Product Datasheet

# Recombinant CD45 Antibody / Rabbit Monoclonal (orb534072)

|                             |   |
|-----------------------------|---|
| <b>Catalog Number</b>       | orb534072   |
| <b>Category</b>             | Antibodies  |
| <b>Description</b>          | <p>CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.</p> |
| <b>Clonality</b>            | Recombinant   |
| <b>Species/Host</b>         | Rabbit  |
| <b>Isotype</b>              | Rabbit IgG, kappa   |
| <b>Conjugation</b>          | Unconjugated  |
| <b>Reactivity</b>           | Human   |
| <b>Buffer/Preservatives</b> | 0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide  |
| <b>Purification</b>         | Protein A affinity chromatography   |
| <b>Immunogen</b>            | Recombinant human protein was used as immunogen for this recombinant CD45 antibody.   |

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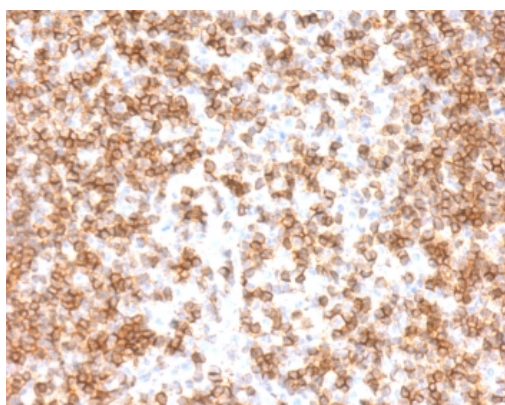
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|                            |  |
|----------------------------|--|
| <b>UniProt ID</b>          | <b>P08575</b>  |
| <b>Tested applications</b> | FACS, IHC-P  |
| <b>Dilution range</b>      | Flow cytometry: 0.5-1ug/10 <sup>6</sup> cells, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT (1)  |
| <b>Application notes</b>   | The stated application concentrations are suggested starting points. Titration of the recombinant CD45 antibody may be required due to differences in protocols and secondary/substrate sensitivity.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min. |
| <b>Antibody Type</b>       | Primary Antibody   |
| <b>Clone Number</b>        | CDLA45-3R  |
| <b>Storage</b>             | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.  |
| <b>Note</b>                | For research use only  |
| <b>Expiration Date</b>     | 12 months from date of receipt.  |



IHC staining of FFPE human tonsil tissue with recombinant CD45 antibody (clone CDLA45-3R). Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.

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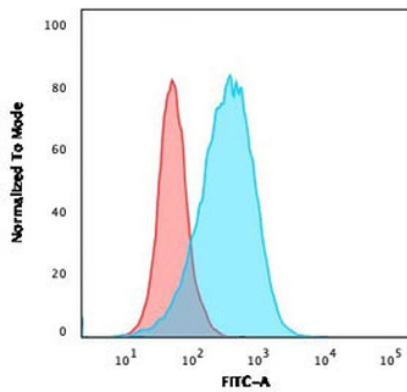
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Flow cytometry testing of PFA-fixed human Raji cells with CD45 antibody (clone CDLA45-3R); Red = isotype control, Blue = CD45 antibody.

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