

## Human cluster of differentiation 45 (CD45) ELISA Kit | CD45 elisa kit

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CATALOG #  
**AAA27241**

REACTIVITY  
**Human**

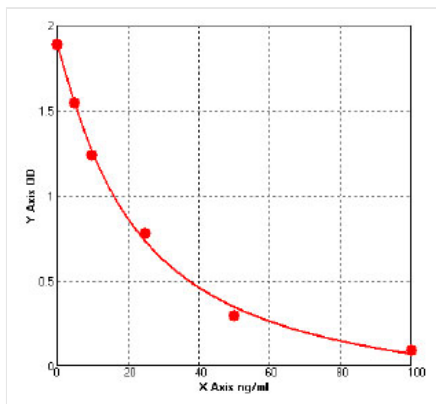
### PRODUCT SYNONYMS

cluster of differentiation 45 (CD45); Human cluster of differentiation 45 (CD45) ELISA Kit; CD45 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CD45. No significant cross-reactivity or interference between CD45 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CD45 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| Sensitivity             | 1.0 ng/mL                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CD45 elisa kit | <p>Principle of the Assay: CD45 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CD45 antibody and an CD45-HRP conjugate. The assay sample and buffer are incubated together with CD45-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CD45 concentration since CD45 from samples and CD45-HRP conjugate compete for the anti-CD45 antibody binding site. Since the number of sites is limited, as more sites are occupied by CD45 from the sample, fewer sites are left to bind CD45-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CD45 concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This CD45 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CD45. This ELISA kit for research use only, not for therapeutic or diagnostic applications!</p> |
| Product Categories/Family for CD45 elisa kit   | Immunology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 44242008                                                                                                                                                                 |
| NCBI GeneID                      | 5788                                                                                                                                                                     |
| Molecular Weight                 | 130,898 Da                                                                                                                                                               |
| NCBI Official Full Name          | CD45, partial                                                                                                                                                            |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, receptor type, C                                                                                                                           |
| NCBI Official Symbol             | PTPRC                                                                                                                                                                    |
| NCBI Official Synonym Symbols    | LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180                                                                                                                           |
| NCBI Protein Information         | receptor-type tyrosine-protein phosphatase C; CD45 antigen; T200 glycoprotein; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide |
| UniProt Protein Name             | Receptor-type tyrosine-protein phosphatase C                                                                                                                             |
| UniProt Gene Name                | PTPRC                                                                                                                                                                    |
| UniProt Synonym Gene Names       | CD45; L-CA                                                                                                                                                               |
| UniProt Entry Name               | PTPRC_HUMAN                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.