SICGEN ANTIBODIES

# Product Data Sheet

| Catalogue No. | Qty: |
|---|---|
| AB100633-100 | 250 µg |

# Anti-CD45, DyLight®633

**Source:** Goat

**General description:** Goat polyclonal antibody to CD45 conjugated to DyLight®633. It is a 180-220 kDa type I transmembrane glycoprotein and a member of the protein tyrosine phosphatase (PTP) family. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. It is expressed in all hematopoietic cells, but highest on lymphocytes. PTPs are known to be signalling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. It has intrinsic tyrosine phosphatase activity and it is essential for T and B cell antigen receptor-mediated activation. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signalling. CD45 also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signalling. The cross-linking of CD45 induces apoptosis in lymphocytes.

**Alternative names:** B220, CD45 antigen, CD45R, GP180, L-CA, LCA, leukocyte common antigen, LY5, protein tyrosine phosphatase, PTPRC, receptor type c polypeptide, receptor-type tyrosine-protein phosphatase C, RP11-553K8.4, T200, T200 glycoprotein, T200 leukocyte common antigen antibody.

**Form:** Polyclonal antibody supplied as a 100 µl (2.5 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

**Immunogen:** Purified recombinant peptide derived from within residues 1,260 aa to the C-terminus of human CD45 produced in E. coli.

**Specificity:** Using Jurkat cell lysate detects a band 180-220 kDa by Western blot.

**Reactivity:** Reacts with Human, Rat, Mouse, Monkey and Canine proteins

| Sample | WB | IHC (F) | IHC (P) | IF |
|---|---|---|---|---|
| Human | +++ | ND | ND | ND |
| Rat | +++ | ND | ND | ND |
| Mouse | +++ | ND | ND | ND |
| Canine | +++ | ND | ND | ND |

| Sample | WB | IHC (F) | IHC (P) | IF |
|---|---|---|---|---|
| Monkey | +++ | ND | ND | ND |

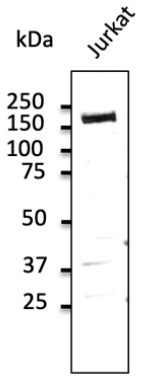
+++ excellent, ++ good, + poor, ND not determined

**Usage:**

WB: 1:1,000-1:5,000

**Storage:** Store at -20 C for long-term storage. Store at 2-8 C for up to one month.

**Special instructions:** Avoid freeze/thaw cycles..




Endogenous CD45 detected with Ab conjugated to DyLight® 800 at 1/2,500 dilution; lysate at 50 µg per lane;

For research use only, not for diagnostic use

**SICGEN's Proprietary Immunogen Policy**

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.