

## Product Datasheet

### CD45 antibody GRP149

#### Description

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. 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 signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]

#### Species/Host

Rabbit

#### Reactivity

Human, Mouse, Rat, Rabbit

#### Conjugation

Unconjugated

#### Tested Applications

FACS, ICC, IF, WB

#### Immunogen

Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human CD45. The exact sequence is proprietary.

#### Form/Appearance

Liquid: 1XPBS, 1% BSA, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.

#### Concentration

0.36 mg/ml

#### Storage

Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

#### Note

For research use only.

#### Isotype

IgG

#### Clonality

Polyclonal

#### Purity

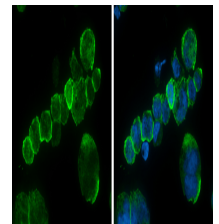
Purified by antigen-affinity chromatography.

#### Uniprot ID

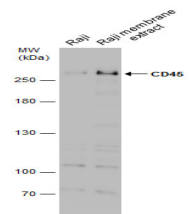
**P08575**

#### Entrez

**5788**



CD45 antibody detects CD45 protein at cell membrane by immunofluorescent analysis. Sample: THP-1 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: CD45 protein stained by CD45 antibody (GRP601) diluted at 1:500. Blue: Hoechst 33342 staining.



Raji whole cell and membrane extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with