

## Technical Data Sheet

### PE Anti-Human CD53

**Catalog Number:** 110008, 110009

**Size:** 25 tests, 100 tests

**Target Name:** CD53, OX44

**Regulatory Status:** RUO

#### Product Details

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**Clone:** HI29

**Application:** FC

**Reactivity:** Human

**Format:** PE

**Isotype:** Mouse IgG1

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA

**Protein Concentration:** Supplied at a lot-specific concentration.

**Storage&Handling:** The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

**Recommended Usage:** For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

**Excitation Laser:** Blue Laser (488 nm) Green/Yellow laser (532/561nm)

**Release Date:** Dec-25

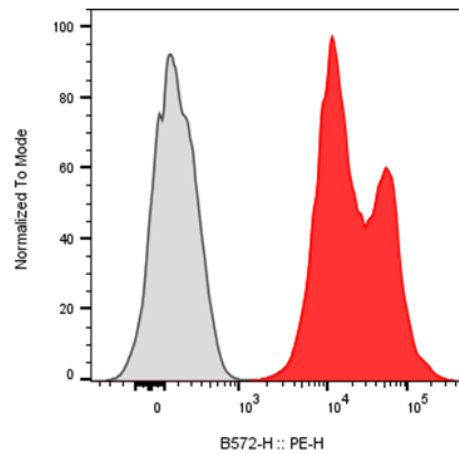
#### Background Information

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CD53 is a 35–42 kDa type III transmembrane glycoprotein and a member of the tetraspanin family. Highly glycosylated, its apparent molecular weight decreases by ~25 kDa upon endoglycosidase F treatment. CD53 acts as a membrane organizer, forming complexes with other surface proteins to regulate signal transduction, immune cell activation, migration, and survival.

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Human peripheral blood lymphocytes was stained with PE Anti-Human CD53 clone HI29 (color-filled) or an isotype control (gray histogram).