

**PE anti-human CD276 (B7-H3)**

**Catalog # / Size:** 2355020 / 100 tests  
2355015 / 25 tests

**Clone:** MIH42

**Isotype:** Mouse IgG1, κ

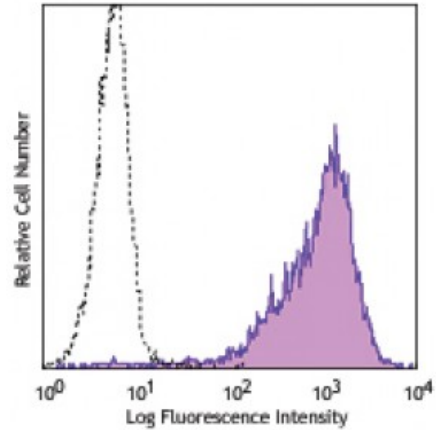
**Immunogen:** Human B7-H3

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

**Concentration:** Lot-specific



Human B7-H3 transfected P815 cells were stained with CD276 (clone MIH42) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Description:** B7-H3, assigned as CD276, is a type I transmembrane protein and shares 20-27% amino acid identity with other B7 family members. Human B7-H3 has a single extracellular variable-type immunoglobulin (IgV)-IgC domain, a signature intracellular domain, and an additional isoform, known as 4Ig-B7-H3, containing nearly exact tandem duplication of the IgV-IgC domain and most likely caused by exon duplication. B7-H3 mRNA is broadly expressed in normal tissues whereas its protein expression is relatively rare. The expression of B7-H3 is induced on T cells, natural killer (NK) cells, and antigen-presenting cells (APCs), including dendritic cells (DCs) and macrophages. It can be upregulated during the maturation from monocytes to DCs, or during the interaction between DCs and regulatory T cells. B7-H3 has been shown to be a co-stimulatory molecule that inhibits T-cell responses. B7-H3 has also been identified to bind TLT-2 involved in the intracellular signaling pathway.