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Monoclonal Antibody to CD276 / B7H3 - PE

Alternate names: 4Ig-B7-H3, B7 homolog 3, Costimulatory molecule, PSEC0249

Catalog No.: AM05619RP-N

Quantity: 100 Tests

Background: CD276 is a type I transmembrane protein that induces the proliferation of CD4+ and CD8+ T cells, enhances the generation of cytotoxic T cells and selectively stimulates the production of interferon gamma.
Expression of CD276 can be induced on dendritic cells and monocytes by inflammatory cytokines, and is also widely expressed in peripheral tissues including the heart, kidney, testis and colon. In humans, CD276 exists as two isoforms which result from gene duplication and differential splicing.
CD276 is reported to have therapeutic potential for the regulation of cell-mediated immune responses to cancer, particularly in conjunction with anti-angiogenic therapy.

Uniprot ID: Q5ZPR3

NCBI: NP_001019907.1

GeneID: 80381

Host / Isotype: Mouse / IgG1

Clone: MIH42

Format: **State:** Lyophilized purified IgG fraction.
Purification: Affinity Chromatography on Protein G.
Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.
Label: PE – R. Phycoerythrin (RPE)
Reconstitution: Restore with 1.0 ml distilled water.

Applications: **Flow Cytometry.**
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects CD276, a member of the B7 family of co-stimulatory molecules also known as B7-H3.
Species: Human.
Other species not tested.

Storage: Prior to and following reconstitution store the antibody at 2-8°C.
DO NOT FREEZE!
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings: 1. Chapoval AI, Ni J, Lau JS, Wilcox RA, Flies DB, Liu D, et al. B7-H3: a costimulatory molecule for T cell activation and IFN-gamma production. Nat Immunol. 2001

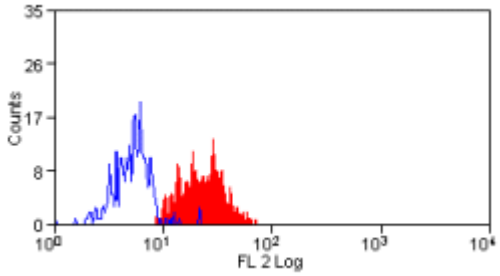
For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Mar;2(3):269-74. PubMed PMID: 11224528.
2. Sun, X. et al. (2003) Mouse B7-H3 induces antitumor immunity. Gene Ther. 10: 1728-1734.
3. Ma L, Luo L, Qiao H, Dong X, Pan S, Jiang H, et al. Complete eradication of hepatocellular carcinomas by combined vasostatin gene therapy and B7H3-mediated immunotherapy. J Hepatol. 2007 Jan;46(1):98-106. Epub 2006 Sep 25. PubMed PMID: 17109987.

Pictures:

Flow Cytometry: AM05619RP-N CD276 antibody staining of Human peripheral blood monocytes.



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