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B7H3

Purified Mouse Monoclonal Antibody
Catalog # AO2699a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q5ZPR3
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5E1D9
Isotype	Mouse IgG1
Calculated MW	57235
Immunogen	Purified recombinant fragment of human B7H3 (AA: extra 29-466) expressed in HEK293 cells.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	80381
Other Names	CD276; B7-H3; B7RP-2; 4Ig-B7-H3
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	B7H3 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD276
Synonyms	B7H3
Function	May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to

	be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes Expressed in dendritic cells derived from monocytes. Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester placenta and term placenta.

References

1.Int J Clin Exp Pathol. 2015 Nov 1;8(11):13987-95.2.BMC Cancer. 2014 Aug 20;14:602.

Images

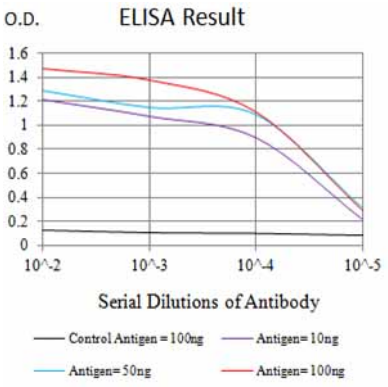

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

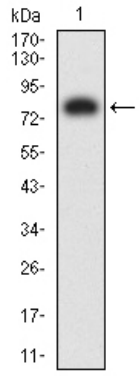

Figure 2:Western blot analysis using B7H3 mAb against human B7H3 (AA: extra 29-466) recombinant protein. (Expected MW is 76.9 kDa)