

# B7H3

Purified Mouse Monoclonal Antibody  
Catalog # AO2700a

## Product Information

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<b>Application</b>	WB, IHC, ICC, E
<b>Primary Accession</b>	<a href="#">Q5ZPR3</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	8C1C2
<b>Isotype</b>	Mouse IgG1
<b>Calculated MW</b>	57235
<b>Immunogen</b>	Purified recombinant fragment of human B7H3 (AA: extra 29-466) expressed in HEK293 cells.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	80381
<b>Other Names</b>	CD276; B7-H3; B7RP-2; 4Ig-B7-H3
<b>Dilution</b>	WB~~ 1/500 - 1/2000 IHC~~ 1/200 - 1/1000 ICC~~ 1/100 - 1/500 E~~ 1/10000
<b>Storage</b>	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.
<b>Precautions</b>	B7H3 is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CD276
<b>Synonyms</b>	B7H3
<b>Function</b>	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

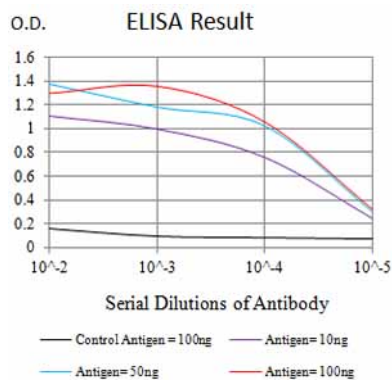


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

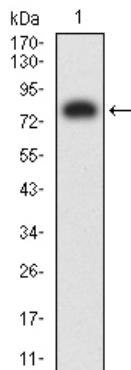


Figure 2:Western blot analysis using B7H3 mAb against human B7H3 (AA: extra 29-466) recombinant protein. (Expected MW is 76.9 kDa)

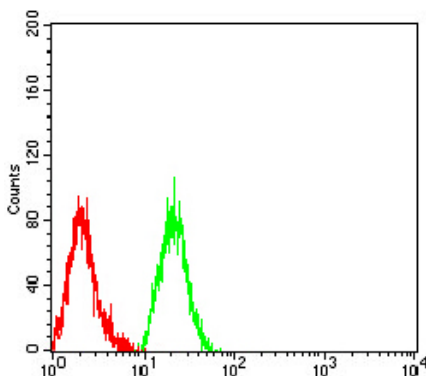


Figure 4:Flow cytometric analysis of Jurkat cells using B7H3 mouse mAb (green) and negative control (red).

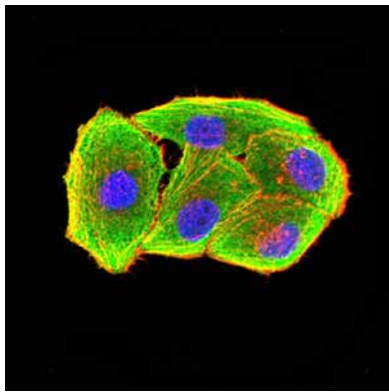


Figure 3:Immunofluorescence analysis of HeLa cells using B7H3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

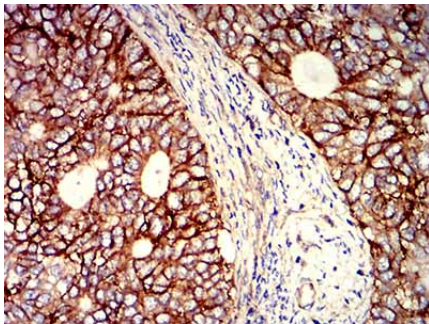
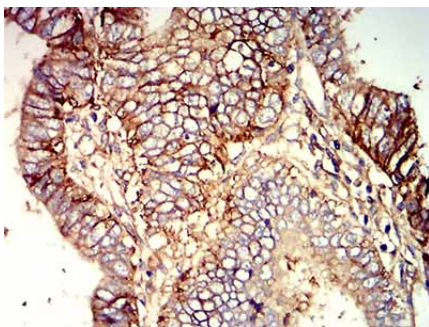


Figure 5:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using B7H3 mouse mAb with DAB staining.



1/200 - 1/1000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.