10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

B7H3
Purified Mouse Monoclonal Antibody
Catalog # AO2700a

Specification

B7H3 - Product Information

Application	**E, WB, ICC, IHC**
Primary Accession	Q5ZPR3
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**57.2kDa KDa**

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

B7H3 - Additional Information

Gene ID 80381

Other Names
CD276; B7-H3; B7RP-2; 4Ig-B7-H3

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000
ICC~~ 1/100 - 1/500
IHC~~ 1/200 - 1/1000

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.

B7H3 - 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.

B7H3 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

B7H3 - Images

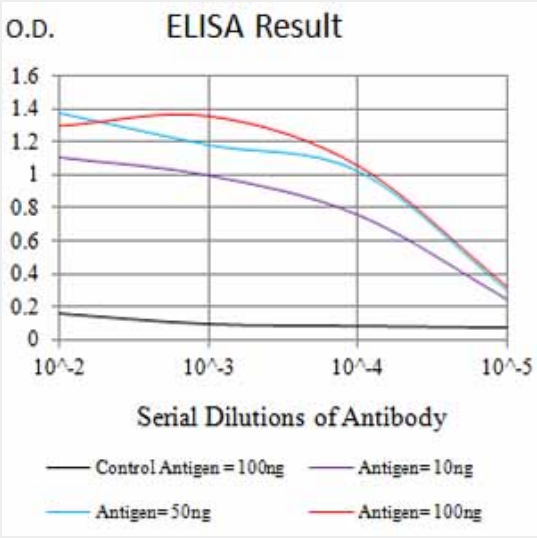


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

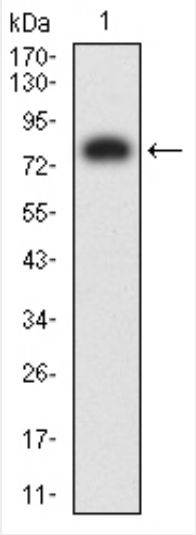


Figure 2:Western blot analysis using B7H3 mAb against human B7H3 (AA: extra 29-466) recombinant protein. (Expected MW is 76.9 kDa)

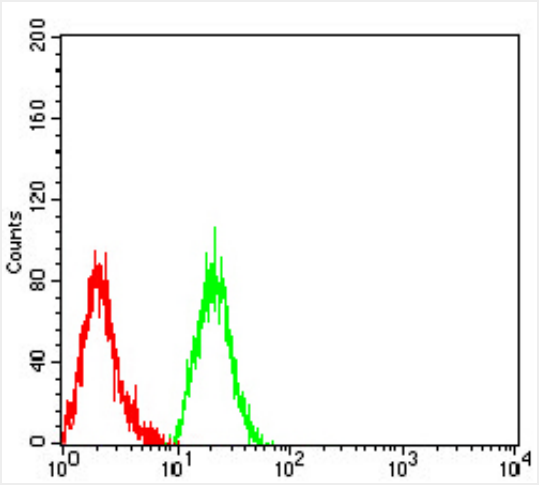


Figure 4:Flow cytometric analysis of Jurkat cells using B7H3 mouse mAb (green) and negative control (red).

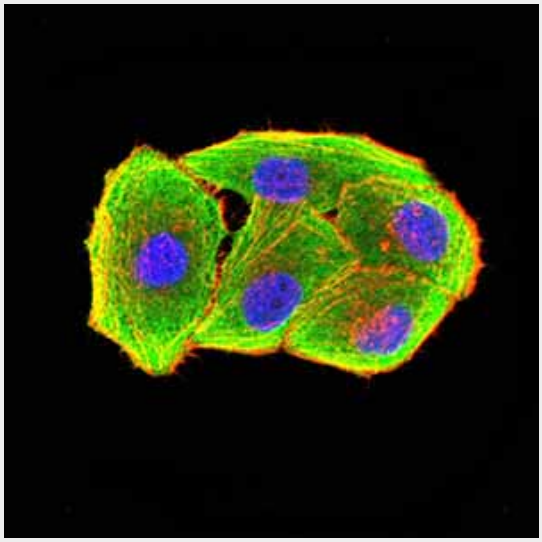


Figure 3:Immunofluorescence analysis of Hela cells using B7H3 mouse mAb (green). Blue: DRAQ5

fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

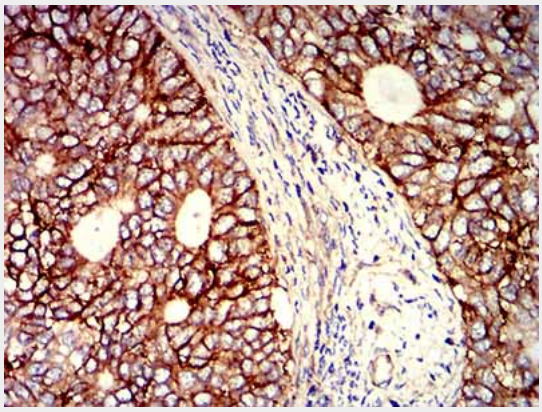
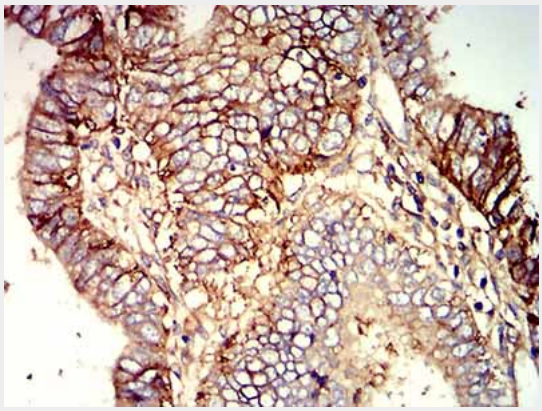


Figure 5:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using B7H3 mouse mAb with DAB staining.



1/200 - 1/1000

B7H3 - References

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