

Mouse Anti-B7-H3 antibody

SLM-51711M

Product Name	B7-H3
Chinese Name	CD276 单克隆抗体
Alias	B7H3; 4Ig B7 H3; 4Ig-B7-H3; AU016588; B7 H3; B7 homolog 3; B7H3; B7RP-2; CD_antigen=CD276; CD276 antigen; CD276; Costimulatory molecule; PSEC0249; UNQ309/PRO352; CD276_HUMAN.
Research Area	Tumour immunology Stem cells TumourCell biologyMaker
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	F6D12
React Species	Human
Applications	WB=1:500-2000,IHC-P=1:100-400,IHC-F=1:100-400,IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	54kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human CD276.
Lsotype	IgG1, κ
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	The protein encoded by this gene belongs to the immunoglobulin superfamily,

and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29.

Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

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.

Subunit:

Interacts with TREML2 and this interaction enhances T-cell activation.

Subcellular Location:

Membrane; Single-pass type I membrane protein (Probable).

Tissue Specificity:

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.

Similarity:

Belongs to the immunoglobulin superfamily. BTN/MOG family.

Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

Contains 2 Ig-like V-type (immunoglobulin-like) domains.

SWISS:

Q5ZPR3

Gene ID:

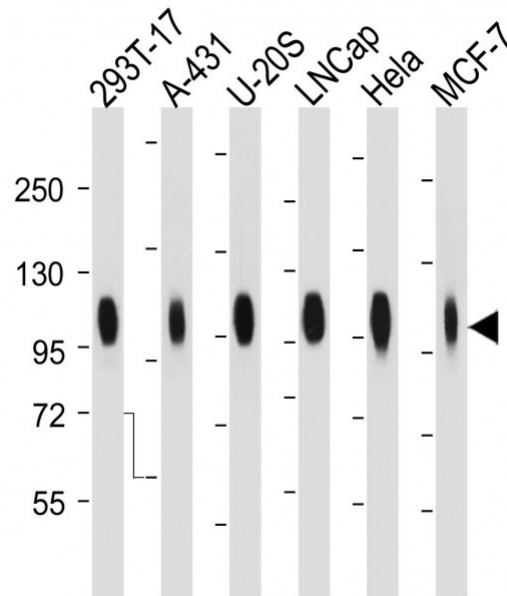
80381

Database links:

[Entrez Gene: 80381](#) Human

[SwissProt: Q5ZPR3](#) Human

Product Picture



Sample:

Lane 1: 293T-17 cell lysates

Lane 2: A-431 cell lysates

Lane 3: U-20S cell lysates

Lane 4: LNCap cell lysates

Lane 5: HeLa cell lysates

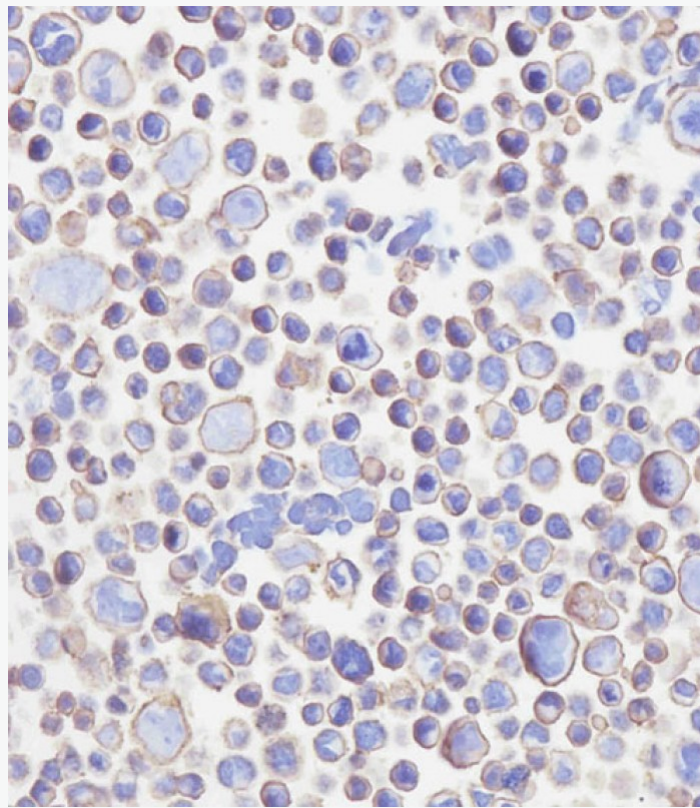
Lane 6: MCF-7 cell lysates

Primary: Anti-CD276 (SLM-51711M) at 1/4000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 54 kD

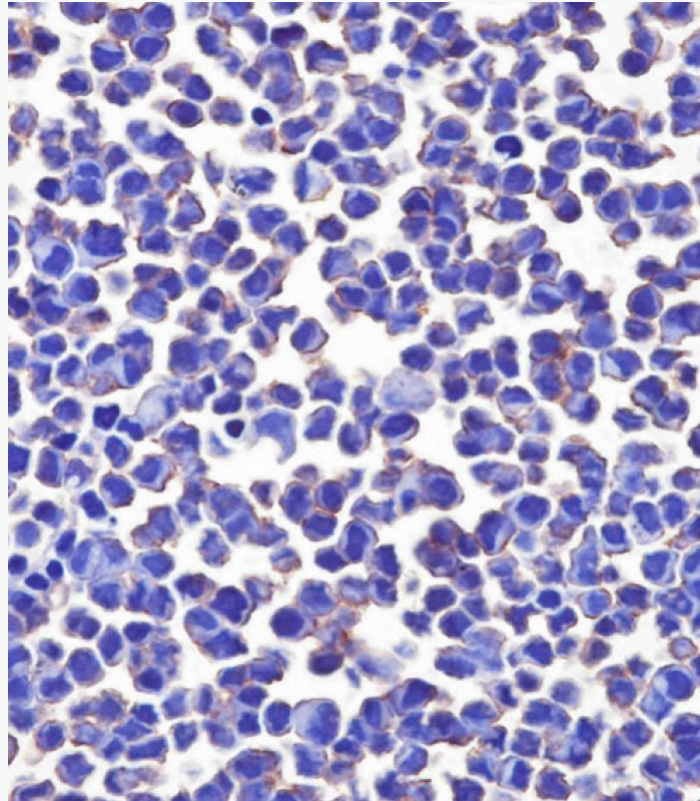
Observed band size: 100 kD



Immunohistochemical analysis of CD276 Antibody in

293T(untransfected) cell sections. Cell was fixed with formaldehyde and blocked with super block for 10 minutes at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9.0). Samples

were incubated with primary antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Immunohistochemical analysis of CD276 Antibody in MCF-7 cell sections. Cell was fixed with formaldehyde and blocked with super block for 10 minutes at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:25) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



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