



Rabbit Anti-CD101 antibody

SL10727R

Product Name:	CD101
Chinese Name:	CD101抗体
Alias:	IGSF2; Immunoglobulin superfamily member 2; Leukocyte surface protein; V7; V7 LSB; IGSF2_HUMAN; IgSF2; Cell surface glycoprotein V7; Glu-Trp-Ile EWI motif-containing protein 101; EWI-101; CD101.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=1:100-500IF=1:10-100 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	113kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CD101:51-150/1021<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CD101 is a disulfide-linked homodimeric type 1 glycoprotein. The peptide is comprised of 7 extracellular V-type IgSF domains. CD101 is highly expressed on monocytes, granulocytes, mucosal T cells, and on activated peripheral blood T cells. Expression is weak on resting T and B and NK cells, absent from platelets and weak or absent from

most hematopoietic cell lines. CD101 is thought to play a co-stimulatory role in TCR/CD3-mediated T cell activation. Monoclonal antibodies against CD101 inhibit allogeneic T cell responses. Studies suggest that CD101 plays a major role in the activation of T cells by skin dendritic cells.

Function:

Plays a role as inhibitor of T-cells proliferation induced by CD3. Inhibits expression of IL2RA on activated T-cells and secretion of IL2. Inhibits tyrosine kinases that are required for IL2 production and cellular proliferation. Inhibits phospholipase C-gamma-1/PLCG1 phosphorylation and subsequent CD3-induced changes in intracellular free calcium. Prevents nuclear translocation of nuclear factor of activated T-cell to the nucleus. Plays a role in the inhibition of T-cell proliferation via IL10 secretion by cutaneous dendritic cells. May be a marker of CD4(+) CD56(+) leukemic tumor cells.

Subcellular Location:

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

Tissue Specificity:

Expressed in lung, thymus and small intestine. Detected in cutaneous dendritic cells, activated T-cells, monocytes and granulocytes as well as with epithelial cells with dendritic morphology. Expressed in some leukemic cells, the CD4(+) CD56(+) blastic tumor cells, as well as in Langerhans cells from LCH (Langerhans cell histiocytosis) patients.

Post-translational modifications:

N-glycosylated.

Similarity:

Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:

Q93033

Gene ID:

9398

Database links:

[Entrez Gene: 9398](#)Human

[Omim: 604516](#)Human

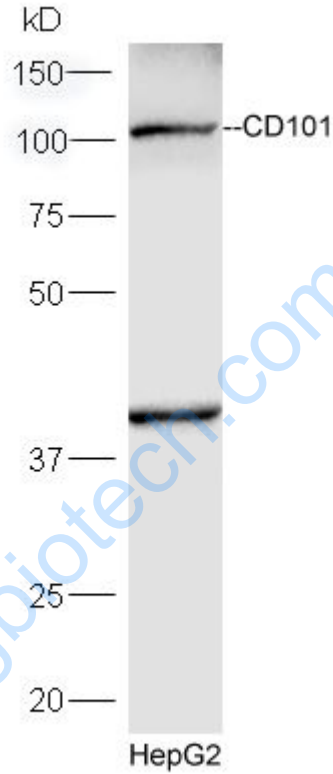
[SwissProt: Q93033](#)Human

[Unigene: 74115](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:

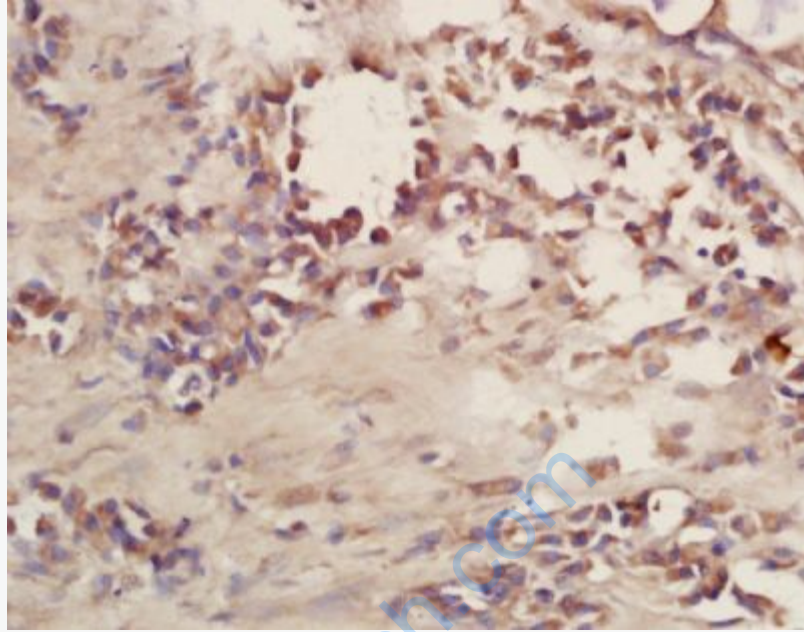


Protein: HepG2(human) lysates at 30ug;

Primary: rabbit Anti-CD101 (SL10727R) at 1:300;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL10727R) at 1: 5000;

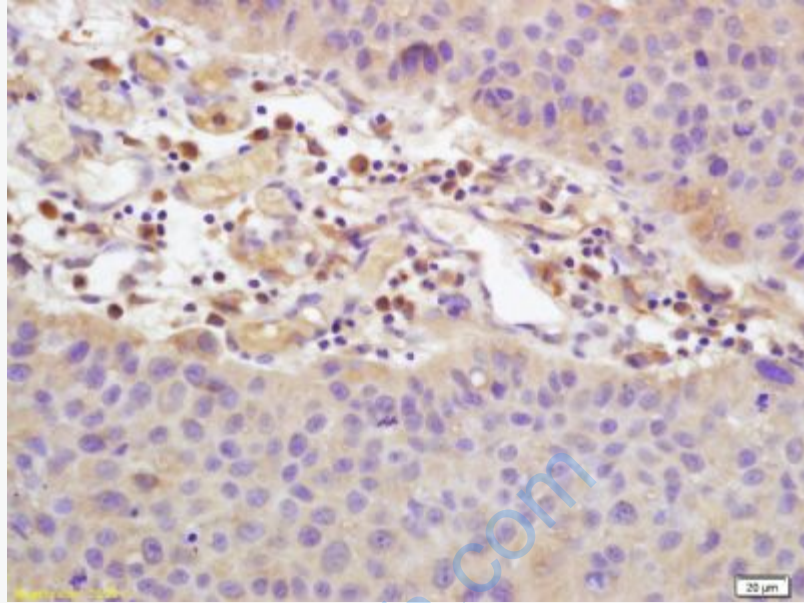
Predicted band size:113 kD Observed band size:113 kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

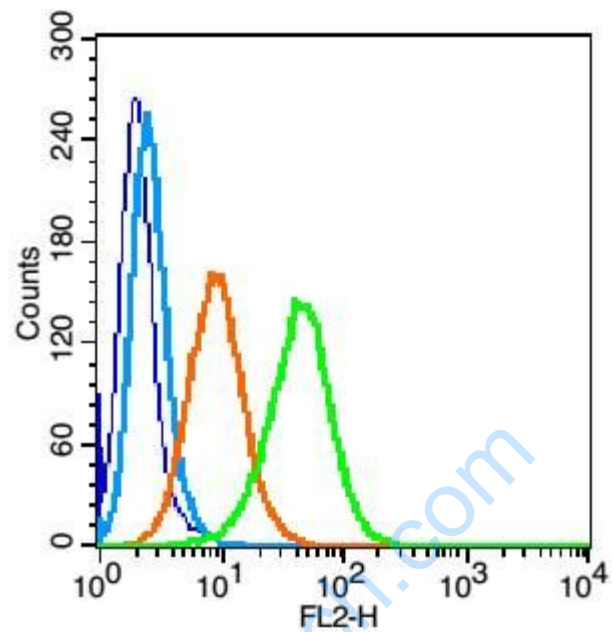
Incubation: Anti-CD101 Polyclonal Antibody, Unconjugated(SL10727R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human bladder carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD101 Polyclonal Antibody, Unconjugated(SL10727R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue): U937(fixed with 2% paraformaldehyde (10 min)).

Primary Antibody:Rabbit Anti-CD101 antibody(SL10727R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.