



Rabbit Anti-CD147 antibody

SL0684R

Product Name:	CD147
Chinese Name:	Extracellular matrix金属蛋白酶诱导因子抗体
Alias:	TCSF; Emmprin; 5A11 antigen; 5F7; Basigin (Ok blood group); Basigin; Blood brain barrier HT7 antigen; BSG; CD 147; CD147 antigen; Collagenase stimulatory factor; Extracellular matrix metalloproteinase inducer; Leukocyte activation antigen M6; M6; M6 leukocyte activation antigen; neurothelin; OK; OK blood group; OK blood group antigen; TCSF; Tumor cell derived collagenase stimulatory factor; BASI_HUMAN.
文献引用 PubMed :	<p>Specific References(2)SL0684R has been referenced in 2 publications.</p> <p>[IF=3.12]Tsai, Wen-Chiuan, et al. "EMMPRIN expression positively correlates with WHO grades of astrocytomas and meningiomas." Journal of Neuro-Oncology (2013): 1-10.Human. PubMed:23817808</p> <p>[IF=2.19]Cui, K., et al. "Transplantation of Autologous Bone Marrow Mononuclear Cells Regulates Inflammation in a Rabbit Model of Carotid Artery Atherosclerosis." Journal of Vascular Research 53.3-4 (2016): 196-205.WB;Rabbit. PubMed:27788500</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	40kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid

Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TCSF:301-385/38<Cytoplasmic>
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:	<p>The protein encoded by this gene is a plasma membrane protein that is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. The encoded protein is also a member of the immunoglobulin superfamily. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Function: Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes.</p> <p>Subunit: Forms homooligomers in a cis-dependent manner on the plasma membrane. Forms heterooligomers of isoform 2 and isoform 3. Forms a complex with MMP1 at the tumor cell surface. Interacts with SLC16A1 and SLC1A3; probably a BSG dimer is associated with a monocarboxylate transporter dimer. Interacts with ATP1B2, MAG and L1CAM. Interacts with AJAP1.</p> <p>Subcellular Location: Cell membrane; Single-pass type I membrane protein. Melanosome.</p> <p>Tissue Specificity: Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas.</p> <p>Post-translational modifications: N-glycosylated.</p> <p>Similarity: Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.</p>

SWISS:
P35613

Gene ID:
682

Database links:

[Entrez Gene: 682](#)Human

[Entrez Gene: 12215](#)Mouse

[Entrez Gene: 25246](#)Rat

[Oimim: 109480](#)Human

[SwissProt: P35613](#)Human

[SwissProt: P18572](#)Mouse

[SwissProt: P26453](#)Rat

[Unigene: 501293](#)Human

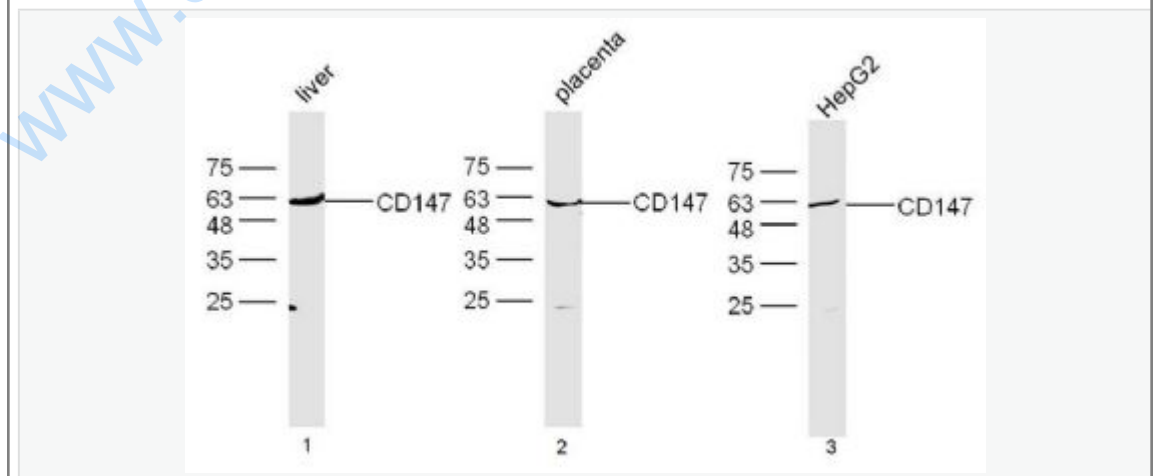
Important Note:

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

Synthesis and Degradation (Synthesis and Degradation)

主要由Tumour细胞合成, 刺激纤维母细胞产生MMP

Picture:



Sample:

Liver(Mouse) Lysate at 40 ug

Placenta(Mouse) Lysate at 40 ug

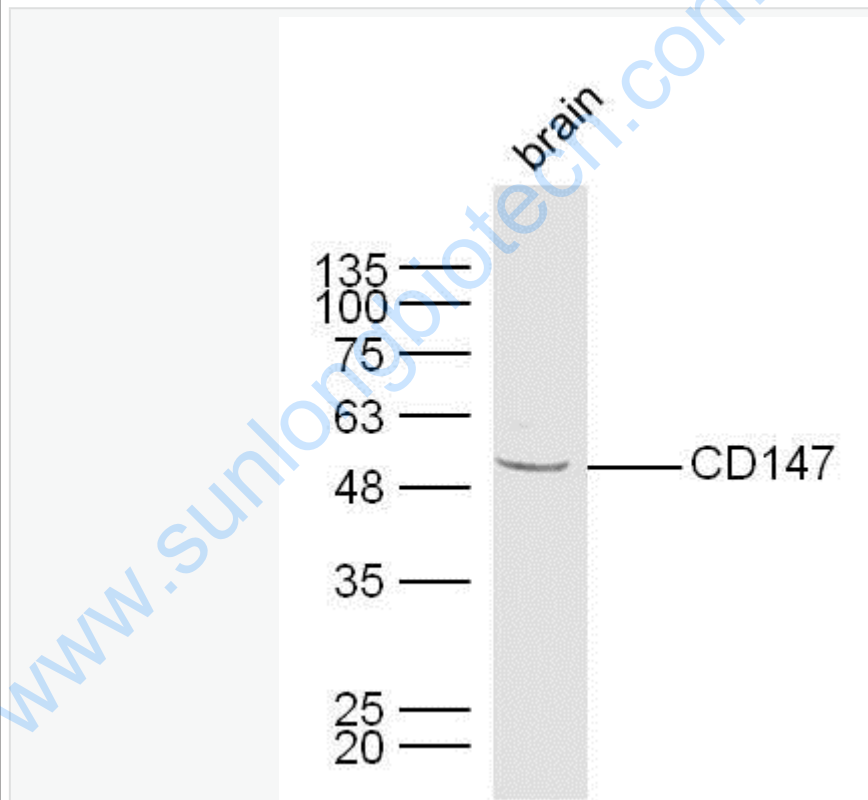
HepG2 Cell Lysate at 40 ug

Primary: Anti-CD147 (SL0684R) at 1/300 dilution

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

Predicted band size: 40 kD

Observed band size: 60 kD



Sample:

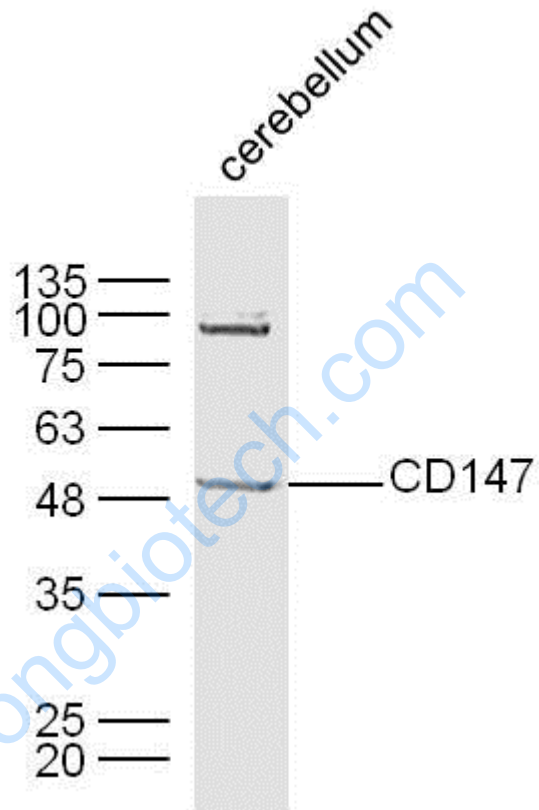
Brain (Mouse) Lysate at 40 ug

Primary: Anti-CD147 (Bs-0684R) at 1/300 dilution

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

Predicted band size: 40 kD

Observed band size: 50 kD



Sample:

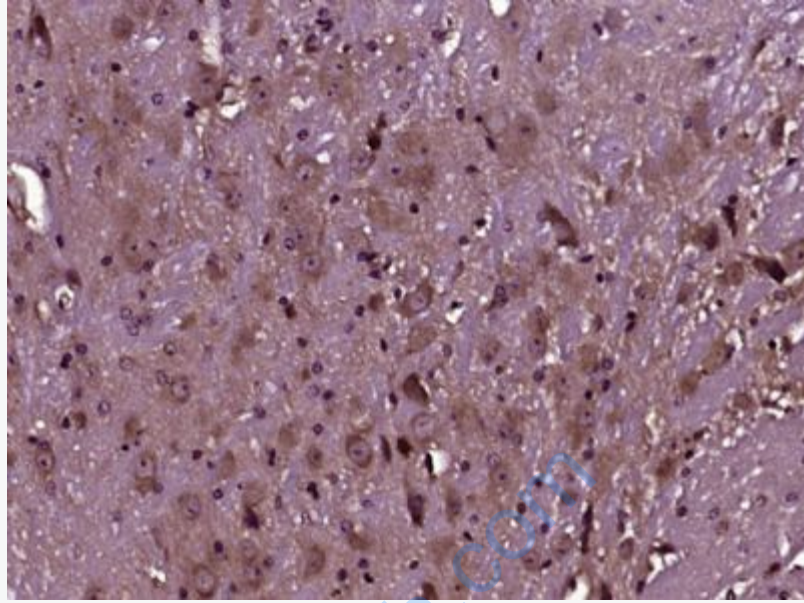
Cerebellum (Mouse) Lysate at 40 ug

Primary: Anti-CD147 (Bs-0684R) at 1/300 dilution

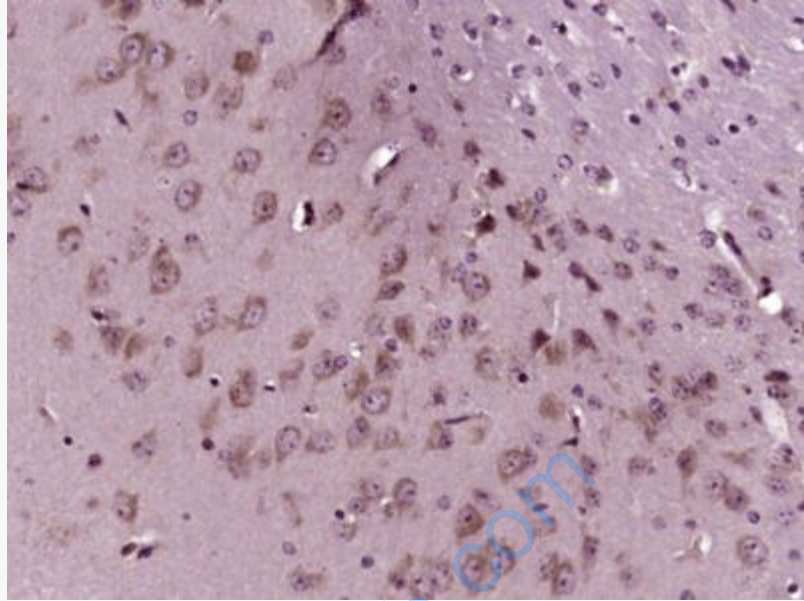
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 40 kD

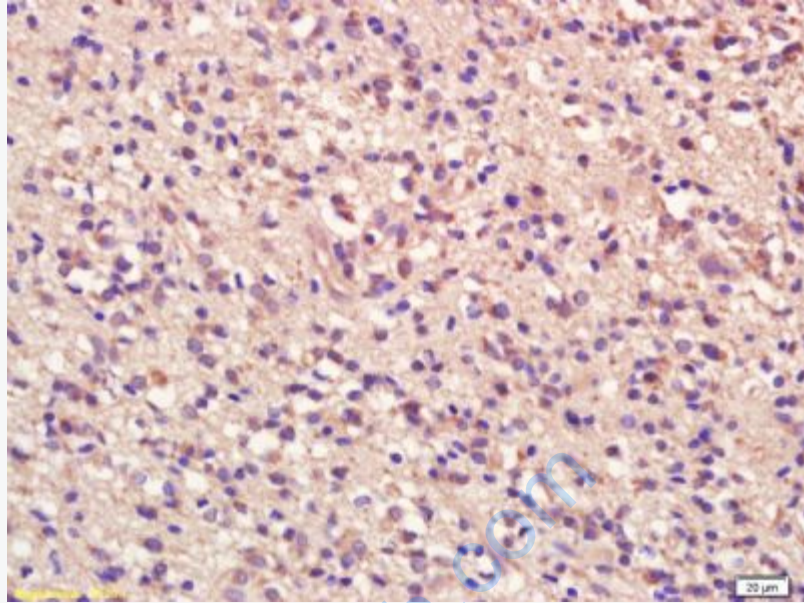
Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD147) Polyclonal Antibody, Unconjugated (SL0684R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD147) Polyclonal Antibody, Unconjugated (SL0684R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

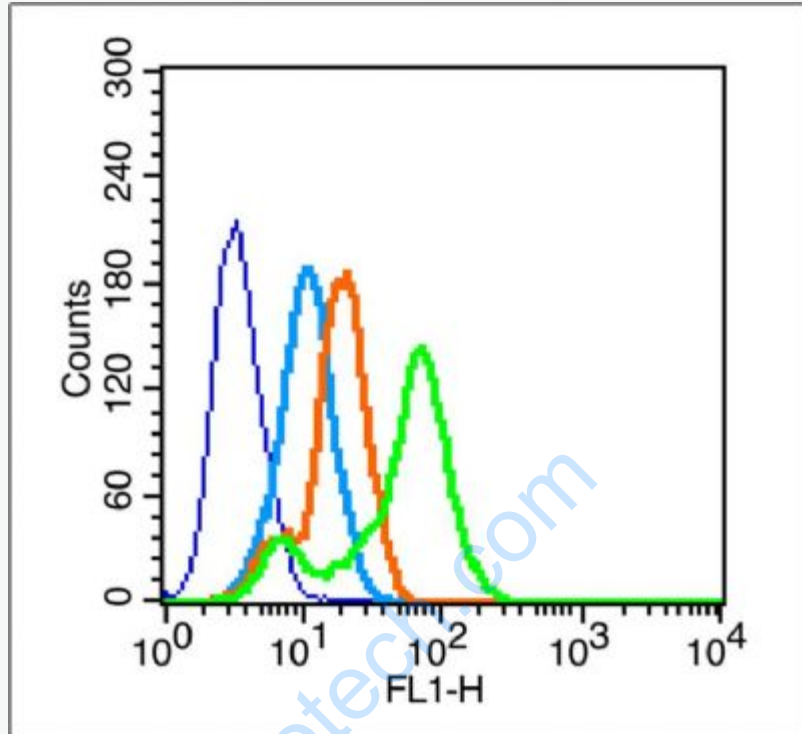


Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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-CD147/TCSF/Emmprin Polyclonal Antibody,

Unconjugated(SL0684R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (blue line): MCF7 (blue).

Primary Antibody (green line): Rabbit Anti-CD147 antibody (SL0684R)

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): F(ab')₂ fragment goat anti-rabbit IgG-FITC

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were fixed with 2% paraformaldehyde for 10 min at room temperature.

Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000

	events was performed.
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