



## Rabbit Anti-JAMC antibody

SL11086R

<b>Product Name:</b>	JAMC
<b>Chinese Name:</b>	连接粘附分子C抗体
<b>Alias:</b>	CAM; JAM 2; JAM 3; JAM C; JAM-2; JAM-3; JAM-C; JAM2; Jam3; JAM3_HUMAN; JAMC; Junction adhesion molecule C; Junctional adhesion molecule 3; Junctional adhesion molecule 3 precursor; Junctional adhesion molecule C.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	31kDa
<b>Cellular localization:</b>	The cell membraneExtracellular matrixSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human JAMC:31-130/310<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. The protein encoded by this immunoglobulin superfamily gene member is localized in the tight

junctions between high endothelial cells. Unlike other proteins in this family, the this protein is unable to adhere to leukocyte cell lines and only forms weak homotypic interactions. The encoded protein is a member of the junctional adhesion molecule protein family and acts as a receptor for another member of this family. A mutation in an intron of this gene is associated with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011].

**Function:**

Participates in cell-cell adhesion. It is a counter-receptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). The soluble form is a mediator of angiogenesis.

**Subunit:**

Interacts with JAM2. Interacts with ITGAM.

**Subcellular Location:**

Cell membrane; Single-pass type I membrane protein (Potential). Cell junction, desmosome. Secreted, extracellular space. Note=In epithelial cells, it is expressed at desmosomes but not at tight junctions. Localizes at the cell surface of endothelial cells; treatment of endothelial cells with vascular endothelial growth factor stimulates recruitment of JAM3 to cell-cell contacts.

**Tissue Specificity:**

Highest expression in placenta, brain and kidney. Significant expression is detected on platelets. Expressed in intestinal mucosa cells. Expressed in the vascular endothelium. Found in serum (at protein level). Also detected in the synovial fluid of patients with rheumatoid arthritis, psoriatic arthritis or osteoarthritis (at protein level).

**Post-translational modifications:**

Proteolytically cleaved from endothelial cells surface into a soluble form by ADAM10 and ADAM17; the release of soluble JAM3 is increased by proinflammatory factors.

**DISEASE:**

Defects in JAM3 are the cause of hemorrhagic destruction of the brain with subependymal calcification and cataracts (HDBSCC) [MIM:613730]. A syndrome characterized by congenital cataracts and severe brain abnormalities apparently resulting from hemorrhagic destruction of the brain tissue, including the cerebral white matter and basal ganglia. Patients manifest profound developmental delay, and other neurologic features included seizures, spasticity, and hyperreflexia. Brain imaging shows multifocal intraparenchymal hemorrhage with associated liquefaction and massive cystic degeneration, and calcification in the subependymal region and in brain tissue.

**Similarity:**

Belongs to the immunoglobulin superfamily.

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

**SWISS:**  
Q9BX67

**Gene ID:**  
83700

**Database links:**

[Entrez Gene: 83700](#)Human

[Entrez Gene: 83964](#)Mouse

[Entrez Gene: 315509](#)Rat

[Omid: 606871](#)Human

[SwissProt: Q9BX67](#)Human

[SwissProt: Q9D8B7](#)Mouse

[SwissProt: Q68FQ2](#)Rat

[Unigene: 150718](#)Human

[Unigene: 728339](#)Human

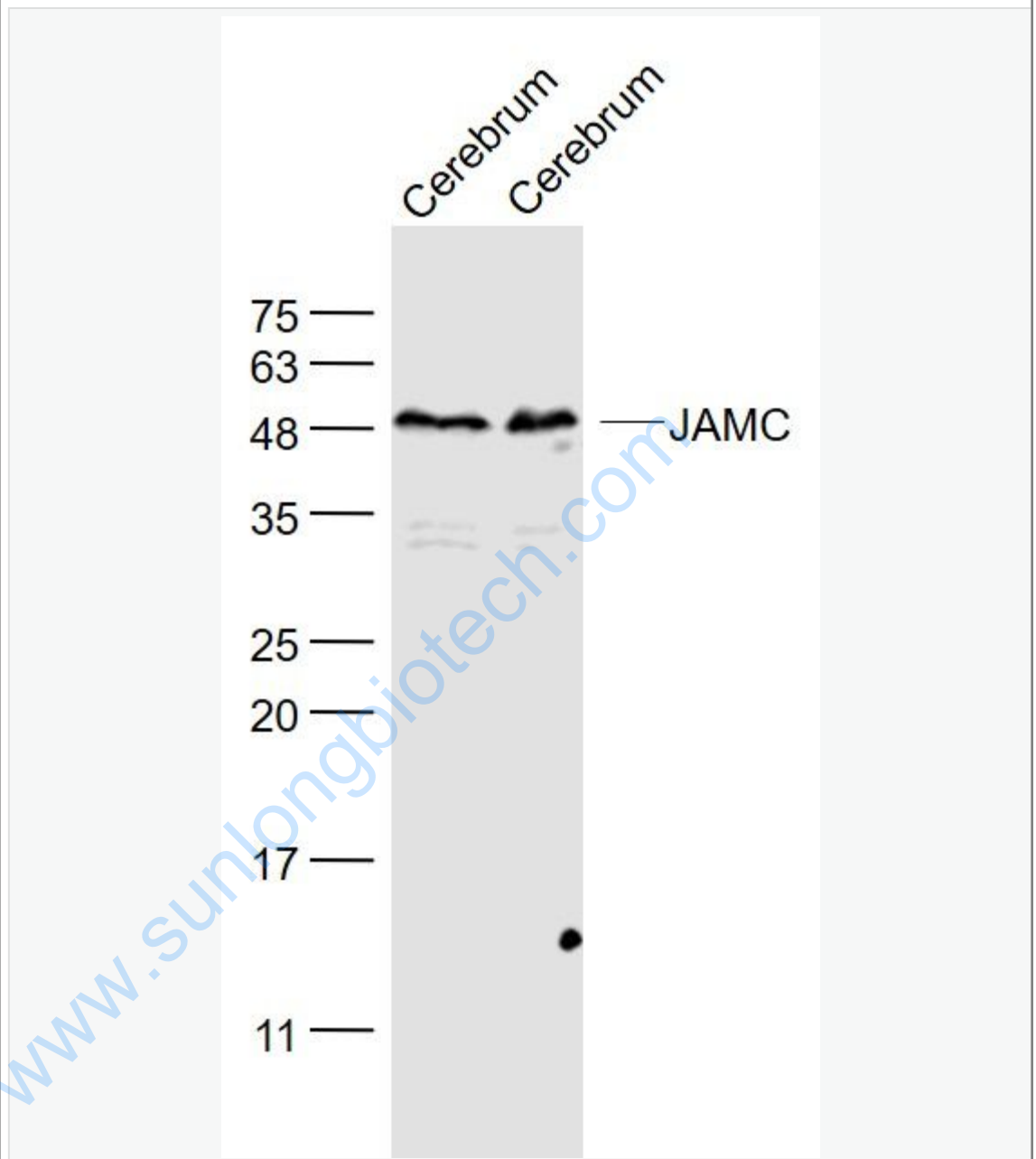
[Unigene: 28770](#)Mouse

[Unigene: 104684](#)Rat

**Important Note:**

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

Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

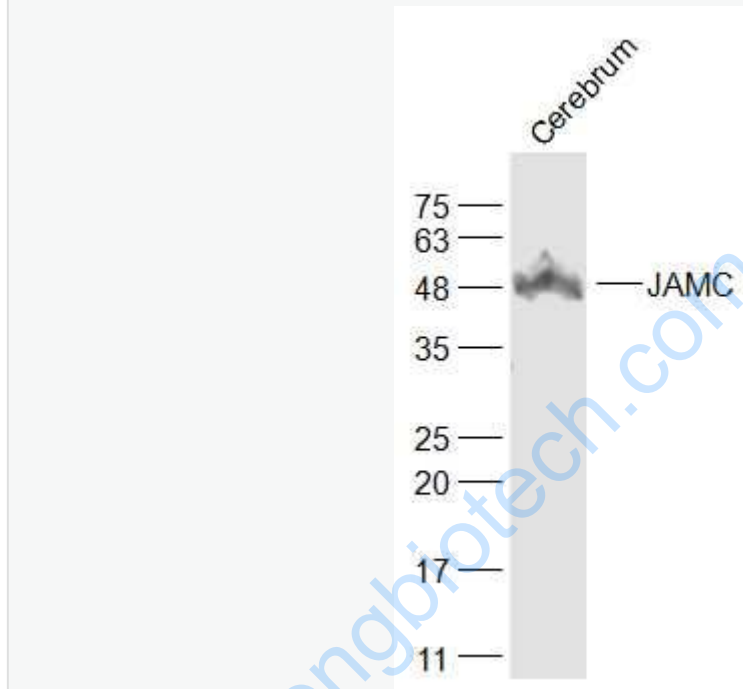
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti- JAMC (SL11086R) at 1/1000 dilution

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

Predicted band size: 31 kD

Observed band size: 49 kD



Sample:

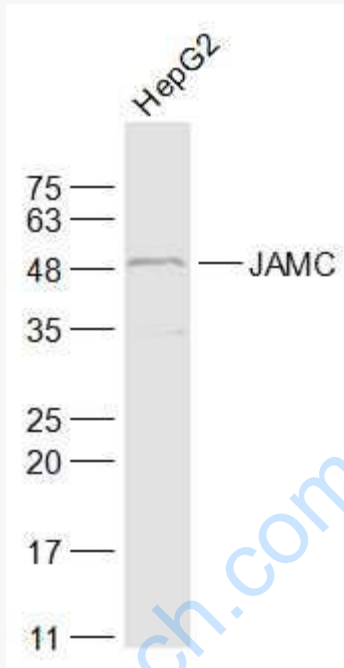
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-JAMC (SL11086R) at 1/1000 dilution

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

Predicted band size: 31 kD

Observed band size: 49 kD



Sample:

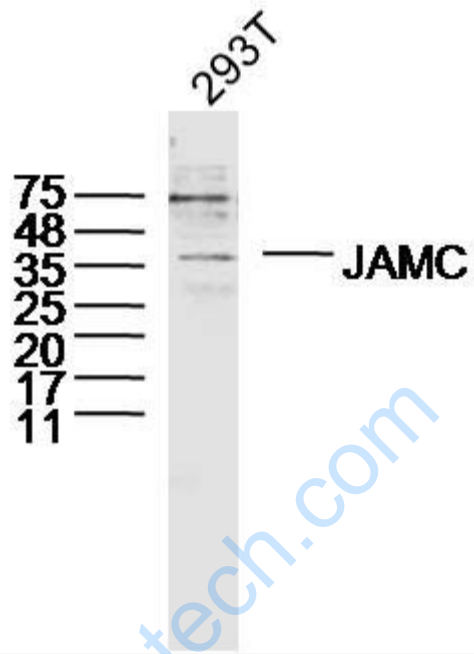
HepG2(Human) Cell Lysate at 30 ug

Primary: Anti-JAMC (SL11086R) at 1/1000 dilution

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

Predicted band size: 31 kD

Observed band size: 49 kD



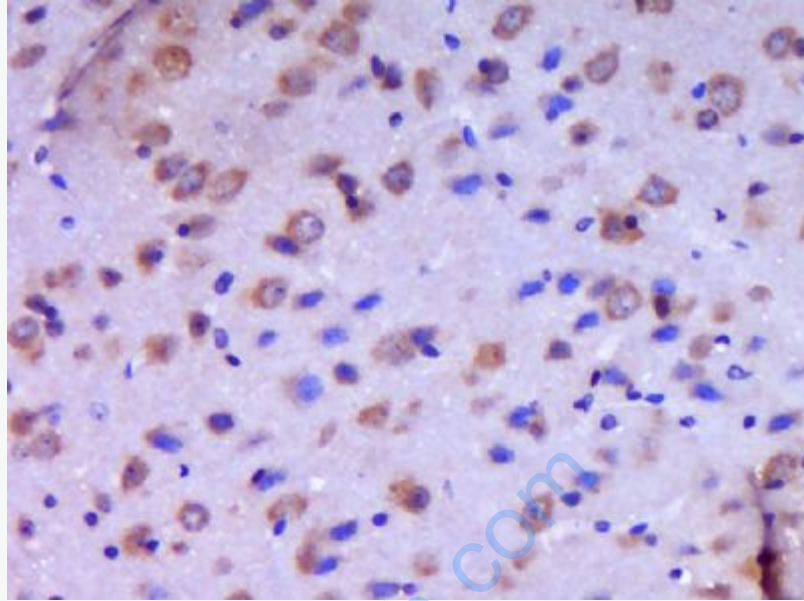
Sample: 293T Cell (Human) Lysate at 40 ug

Primary: Anti-JAMC (SL11086R) at 1/300 dilution

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

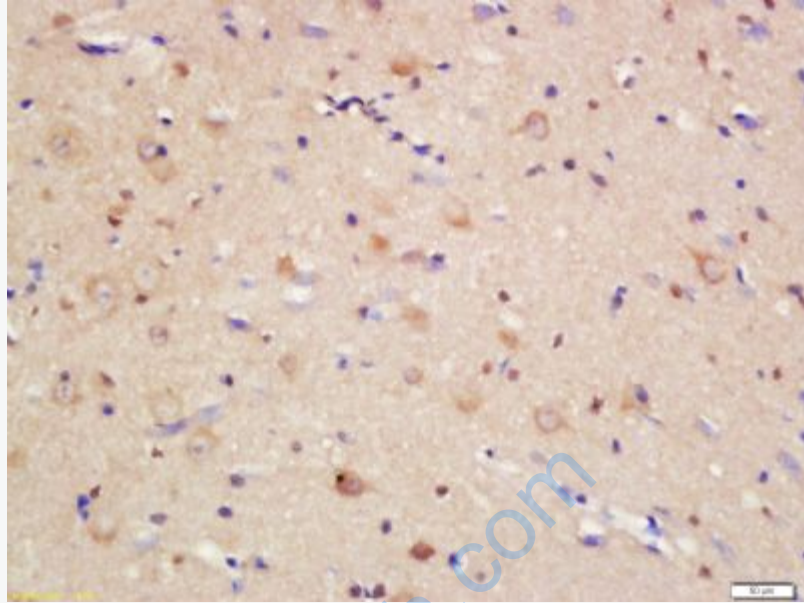
Predicted band size: 31 kD

Observed band size: 36 kD



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 (JAMC) Polyclonal Antibody, Unconjugated (SL11086R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.





Tissue/cell: rat brain 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-JAMC Polyclonal Antibody, Unconjugated(SL11086R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining