



Rabbit Anti-CELSR1 antibody

SL13831R

Product Name:	CELSR1
Chinese Name:	钙粘蛋白超家族CELSR1抗体
Alias:	Cadherin EGF LAG seven pass G type receptor 1; Cadherin EGF LAG seven pass G type receptor; CDHF 9; CDHF9; CELS R1; CELSR 1; DKFZp434P0729; Flamingo homolog 2; Flamingo homolog; Flamingo homolog Drosophila; FMI 2; FMI2; HFMI 2; HFMI2; ME 2; ME2; OTTHUMP00000028852; Protocadherin flamingo 2; CELR1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Sheep,
Applications:	IHC-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.
Molecular weight:	327kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CELSR1:751-850/3014<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:	The protein encoded by this gene is a member of the flamingo subfamily, part of the cadherin superfamily. The flamingo subfamily consists of nonclassic-type cadherins; a

subpopulation that does not interact with catenins. The flamingo cadherins are located at the plasma membrane and have nine cadherin domains, seven epidermal growth factor-like repeats and two laminin A G-type repeats in their ectodomain. They also have seven transmembrane domains, a characteristic unique to this subfamily. It is postulated that these proteins are receptors involved in contact-mediated communication, with cadherin domains acting as homophilic binding regions and the EGF-like domains involved in cell adhesion and receptor-ligand interactions. This particular member is a developmentally regulated, neural-specific gene which plays an unspecified role in early embryogenesis. [provided by RefSeq, Jul 2008]

Function:

Receptor that may have an important role in cell/cell signaling during nervous system formation.

Subcellular Location:

Integral membrane protein

Post-translational modifications:

The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains (By similarity).

DISEASE:

Neural tube defects (NTD) [MIM:182940]: Congenital malformations of the central nervous system and adjacent structures related to defective neural tube closure during the first trimester of pregnancy. Failure of neural tube closure can occur at any level of the embryonic axis. Common NTD forms include anencephaly, myelomeningocele and spina bifida, which result from the failure of fusion in the cranial and spinal region of the neural tube. NTDs have a multifactorial etiology encompassing both genetic and environmental components. Note=The disease may be caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.

Contains 9 cadherin domains.

Contains 8 EGF-like domains.

Contains 1 GPS domain.

Contains 1 laminin EGF-like domain.

Contains 2 laminin G-like domains.

SWISS:

Q9NYQ6

Gene ID:

9620

Database links:

[Entrez Gene: 9620](#) Human

[Omin: 604523](#) Human

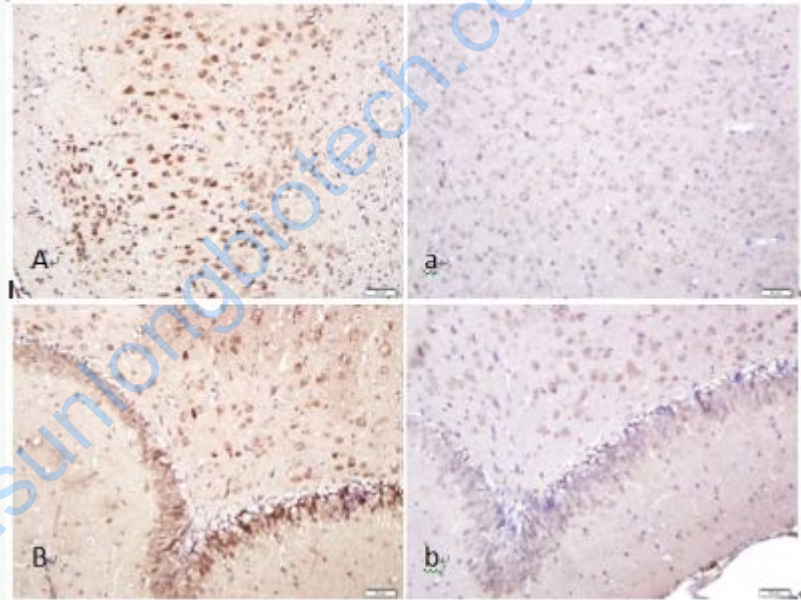
[SwissProt: Q9NYQ6](#) Human

[Unigene: 252387](#) Human

Important Note:

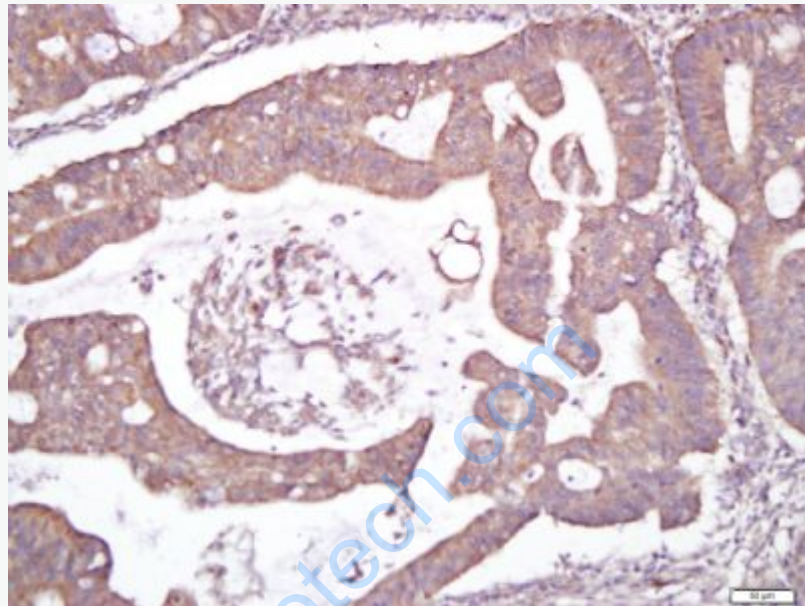
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:

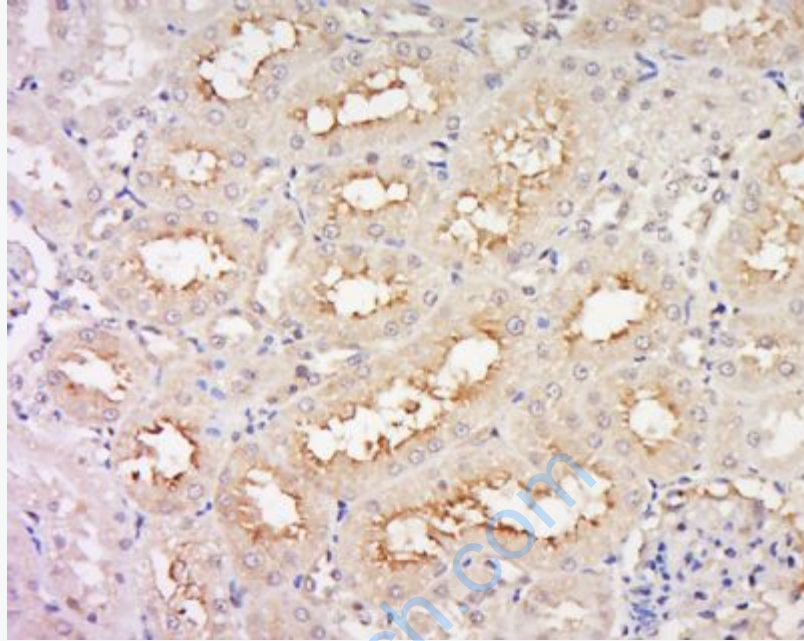


Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CELSR1) Polyclonal Antibody, Unconjugated (SL13831R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining. A,B: non-peptide blocking a,b: peptide

blocking negative control



Paraformaldehyde-fixed, paraffin embedded (human cervix cancer); 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 (CELSR1) Polyclonal Antibody, Unconjugated (SL13831R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat kidney 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-CELSR1 Polyclonal Antibody, Unconjugated(SL13831R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining