



## Rabbit Anti-TJP2 antibody

SL4844R

<b>Product Name:</b>	TJP2
<b>Chinese Name:</b>	紧密连接蛋白2抗体
<b>Alias:</b>	Friedreich ataxia region gene X104 (tight junction protein ZO-2); MGC26306; Tight junction protein 2; Tight junction protein ZO 2; Tight junction protein ZO-2; TJP2; X104; ZO 2; ZO-2; ZO2; ZO2_HUMAN; Zona occludens protein 2; Zonula occludens protein 2
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep,Guinea Pig,Danio rerio
<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>	131kDa
<b>Cellular localization:</b>	The nucleuscytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TJP2:551-650/1190
<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>	This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutations in this gene have been identified in patients with

hypercholanemia, and genomic duplication of a 270 kb region including this gene causes autosomal dominant deafness-51. Alternatively spliced transcripts encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011].

**Function:**

Plays a role in tight junctions and adherens junctions

**Subunit:**

Homodimer, and heterodimer with ZO1. Interacts with occludin, SAFB and UBN1. Interaction with SAFB occurs in the nucleus. Interacts with SCRIB.

**Subcellular Location:**

Cell junction, adherens junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction, tight junction. Nucleus. Note=Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures.

**Tissue Specificity:**

This protein is found in epithelial cell junctions. Isoform A1 is abundant in the heart and brain. Detected in brain and skeletal muscle. It is present almost exclusively in normal tissues. Isoform C1 is expressed at high level in the kidney, pancreas, heart and placenta. Not detected in brain and skeletal muscle. Found in normal as well as in most neoplastic tissues.

**DISEASE:**

Defects in TJP2 are involved in familial hypercholanemia (FHCA) [MIM:607748]. FHCA is a disorder characterized by elevated serum bile acid concentrations, itching, and fat malabsorption.

**Similarity:**

Belongs to the MAGUK family.  
Contains 1 guanylate kinase-like domain.  
Contains 3 PDZ (DHR) domains.  
Contains 1 SH3 domain.

**SWISS:**

Q9UDY2

**Gene ID:**

9414

**Database links:**

[Entrez Gene: 9414](#)Human

[Entrez Gene: 21873](#)Mouse

[Entrez Gene: 115769](#)Rat

[Omim: 607709](#)Human

[SwissProt: Q9UDY2](#)Human

[SwissProt: Q9Z0U1](#)Mouse

[Unigene: 50382](#)Human

[Unigene: 104744](#)Mouse

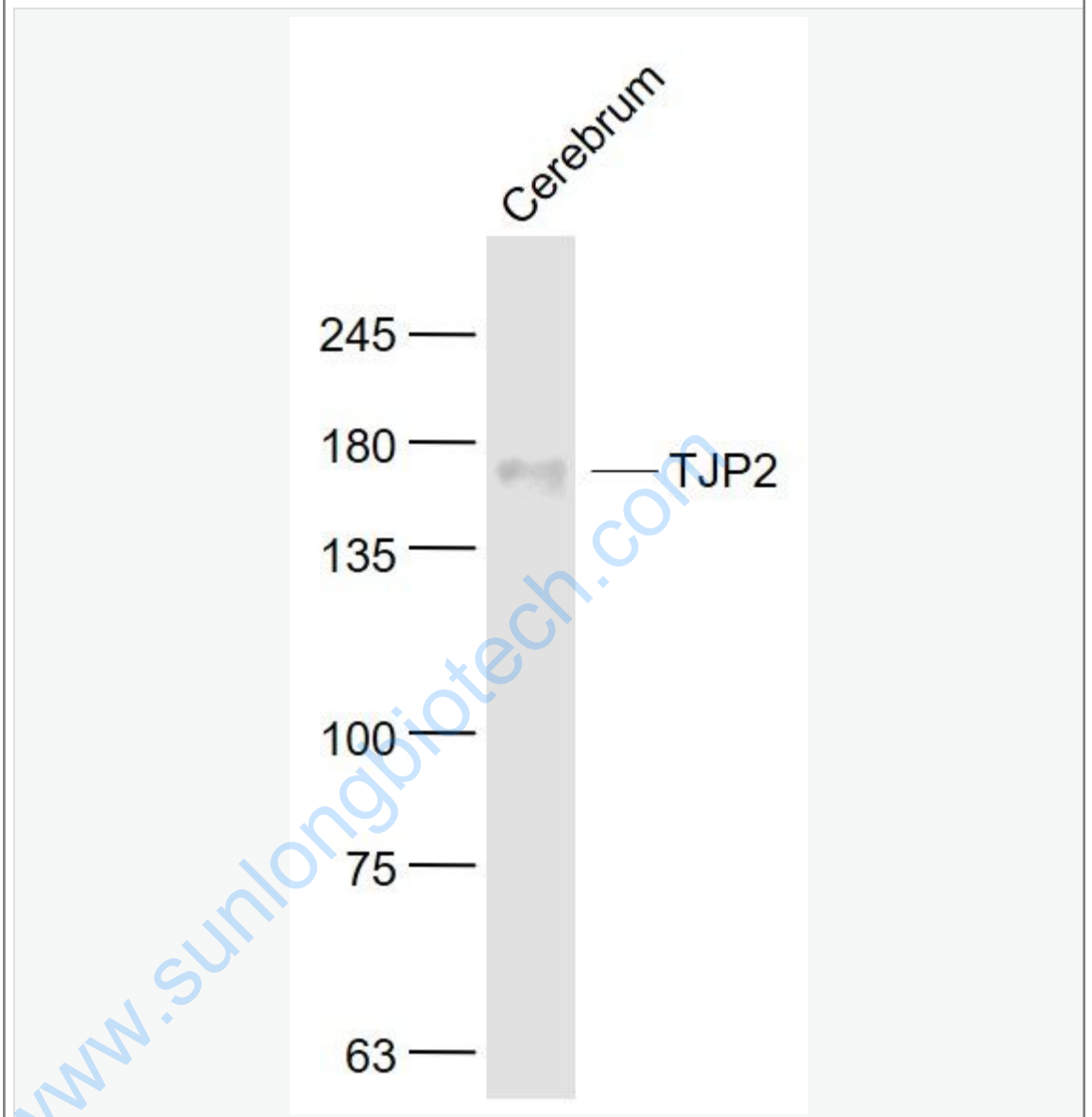
[Unigene: 10965](#)Rat

**Important Note:**

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

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Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- TJP2 (SL4844R) at 1/1000 dilution

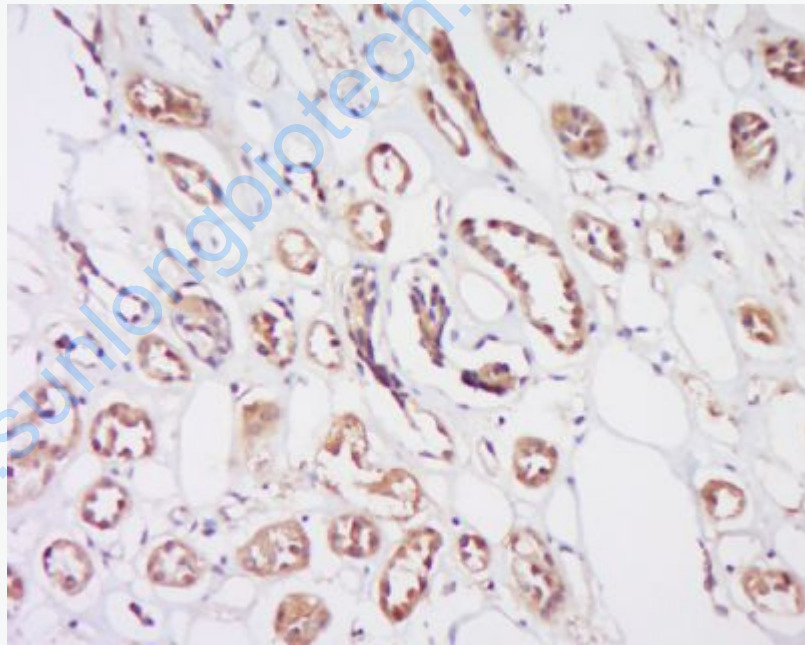
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 131 kD

Observed band size: 170 kD



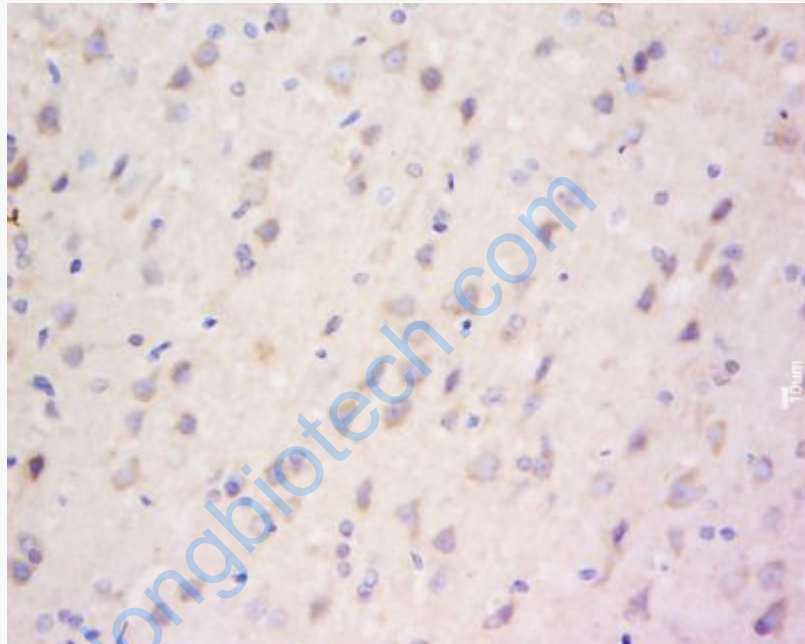
Paraformaldehyde-fixed, paraffin embedded (rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TJP2) Polyclonal Antibody, Unconjugated (SL4844R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: Human 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-TJP2 Polyclonal Antibody, Unconjugated(SL4844R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) 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-TJP2 Polyclonal Antibody, Unconjugated(SL4844R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining