



Rabbit Anti-Occludin antibody

SL10011R

Product Name:	Occludin
Chinese Name:	紧密连接蛋白抗体
Alias:	Occludin, Occludin-1; Occludin1; Occludin 1; FLJ08163; BLCPMG; FLJ18079; FLJ77961; FLJ94056; MGC34277; Occludin; OCLN; OCLN_HUMAN; Tight junction protein occludin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=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:	59kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Occludin:151-250/522<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:	This gene encodes an integral membrane protein which is located at tight junctions. This protein may be involved in the formation and maintenance of the tight junction. The possibility of several alternatively spliced products has been suggested but the full nature of these products has not been described. [provided by RefSeq].

Function:

May play a role in the formation and regulation of the tight junction (TJ) paracellular permeability barrier.

Subunit:

Interacts with TJP1/ZO1 and with VAPA.

Subcellular Location:

Membrane; Multi-pass membrane protein. Cell junction, tight junction.

Tissue Specificity:

Localized at tight junctions of both epithelial and endothelial cells. Highly expressed in kidney. Not detected in testis.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR. Dephosphorylated by PTPRJ. May be phosphorylated by PKC during translocation to cell-cell contacts.

Similarity:

Belongs to the ELL/occludin family.
Contains 1 MARVEL domain.

SWISS:

Q16625

Gene ID:

100506658

Database links:

[Entrez Gene: 18260](#)Mouse

[Entrez Gene: 100506658](#)Human

[Entrez Gene: 397236](#)Pig

[Entrez Gene: 83497](#)Rat

[Entrez Gene: 403844](#)Dog

[Omim: 602876](#)Human

[SwissProt: Q28269](#)Dog

[SwissProt: Q16625](#)Human

[SwissProt: Q61146](#)Mouse

[SwissProt: Q6P6T5](#)Rat

[Unigene: 592605](#)Human

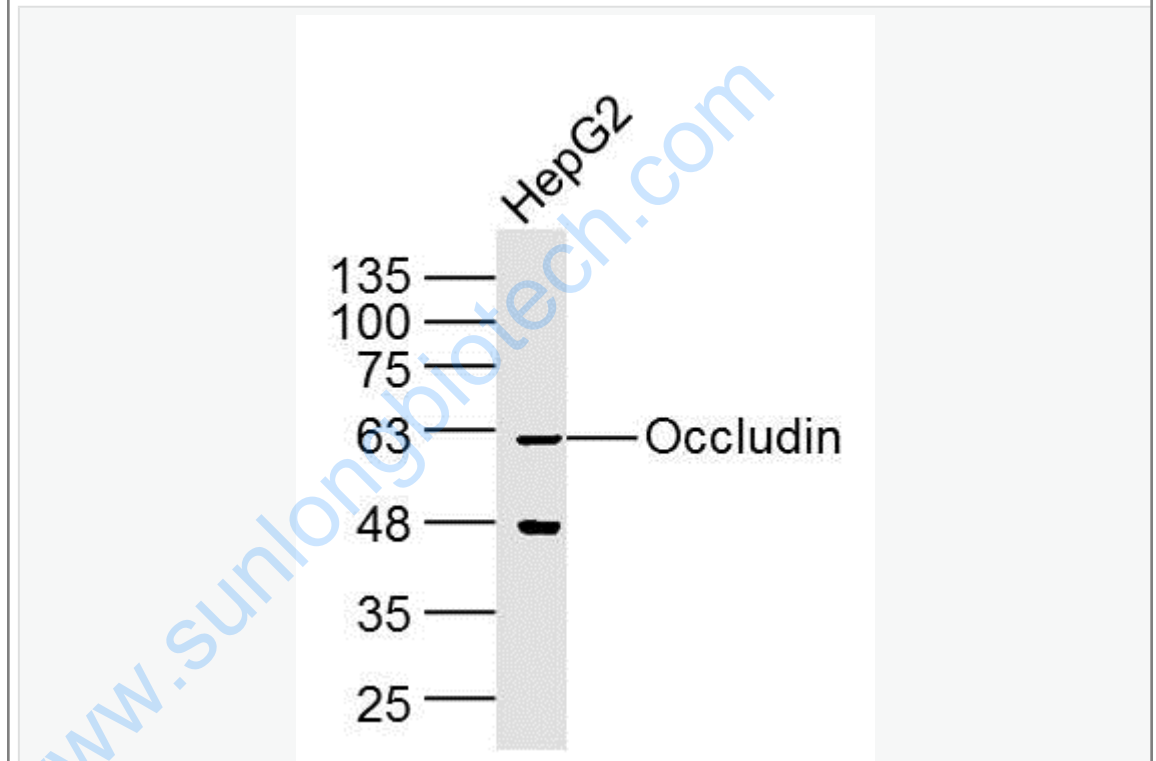
[Unigene: 4807](#)Mouse

[Unigene: 31429](#)Rat

Important Note:

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

Picture:



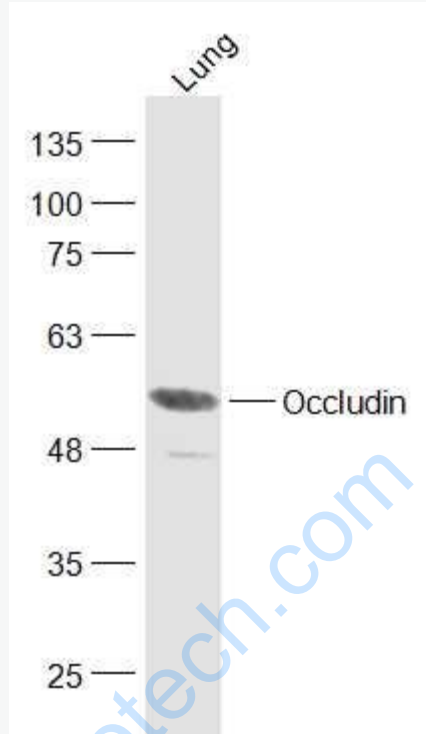
Sample: HepG2 Cell (Human) Lysate at 40 ug

Primary: Anti-Occludin (SL10011R) at 1/300 dilution

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

Predicted band size: 59 kD

Observed band size: 60 kD



Sample:

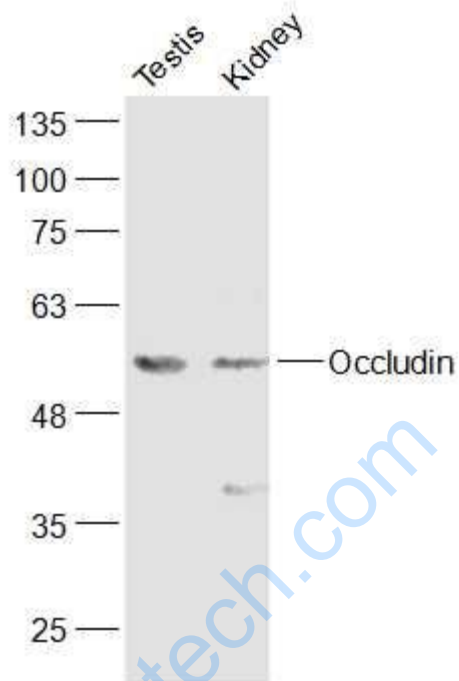
Lung (Mouse) Lysate at 40 ug

Primary: Anti-Occludin (SL10011R) at 1/300 dilution

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

Predicted band size: 59 kD

Observed band size: 59 kD



Sample:

Testis (Mouse) Lysate at 40 ug

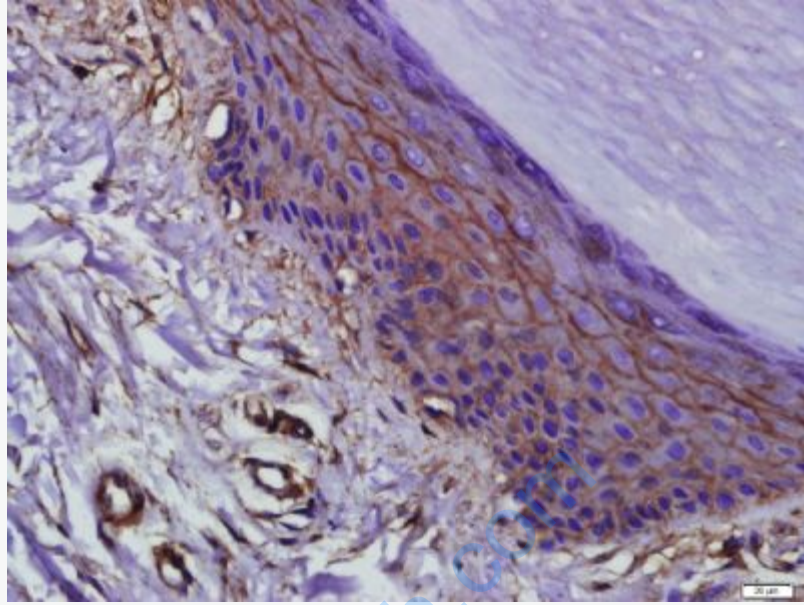
Kidney (Mouse) Lysate at 40 ug

Primary: Anti-Occludin (SL10011R) at 1/300 dilution

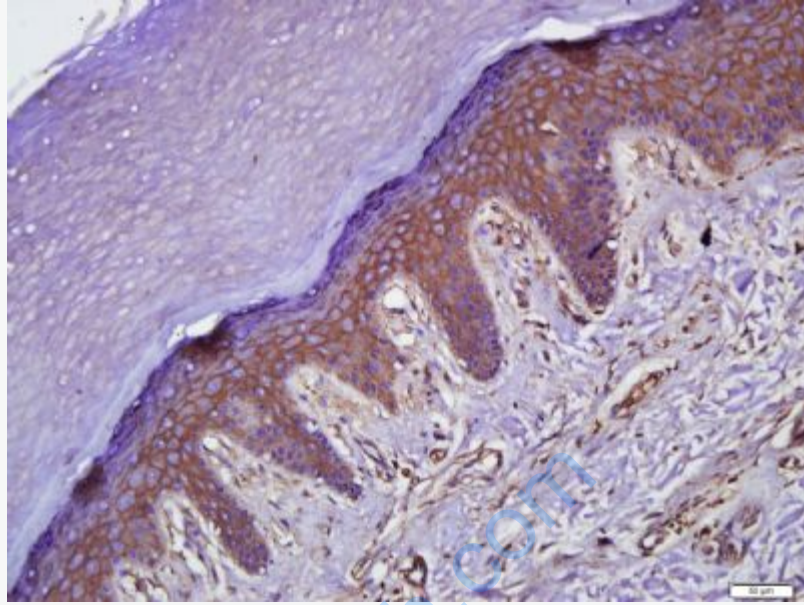
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 59 kD

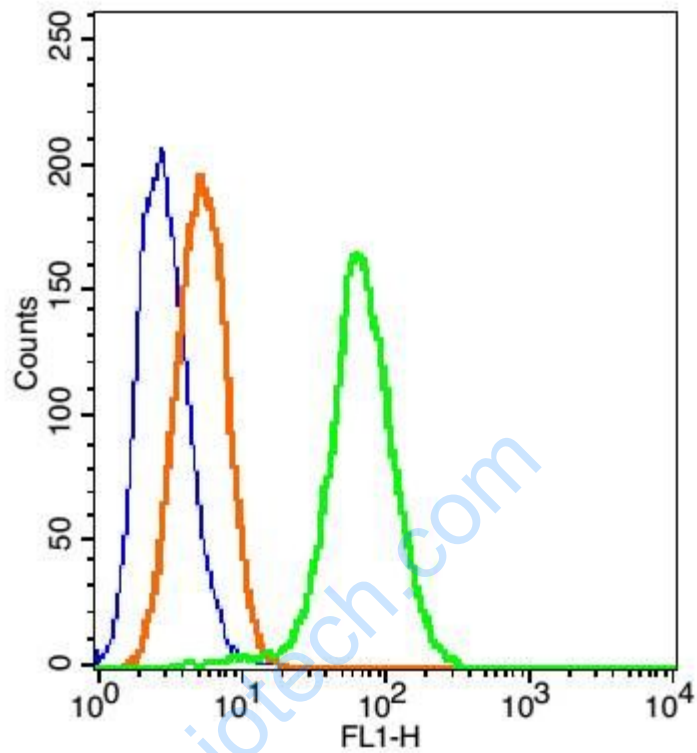
Observed band size: 59 kD



Paraformaldehyde-fixed, paraffin embedded (Normal skin); 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 (Occludin) Polyclonal Antibody, Unconjugated (SL10011R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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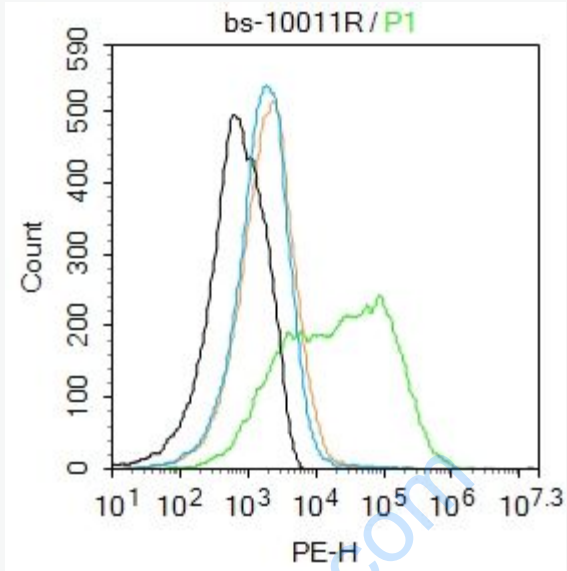


Blank control(blue): 293T(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice).

Primary Antibody: Rabbit Anti-Occludin/FITC Conjugated antibody (SL10011R),

Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/FITC(orange) ,used under the same conditions.



Blank control: Mouse kidney.

Primary Antibody (green line): Rabbit Anti-Occludin antibody (SL10011R)

Dilution: $3\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

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

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein

interactions for 30 min at room temperature .Cells stained with Primary Antibody

for 30 min at room temperature. The secondary antibody used for 40 min at room

temperature. Acquisition of 20,000 events was performed.