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[KD Validated] Claudin 1 Rabbit mAb

Catalog No.: A25902 Recombinant 6 Publications

Basic Information

Observed MW
23 kDa

Calculated MW
23 kDa

Category
Primary antibody

Applications
WB,Auto WB,IP,IF-P,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3289

Background

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. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome.

Recommended Dilutions

WB	1:1000 - 1:5000
Auto WB	1:100 - 1:500
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
IF-P	1:50 - 1:200
IHC-P	1:100 - 1:400
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
9076

Swiss Prot
O95832

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
CLD1; SEMP1; ILVASC

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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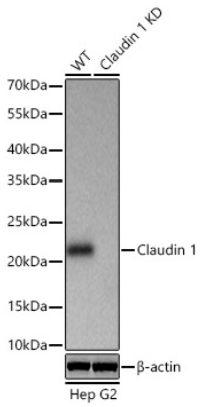
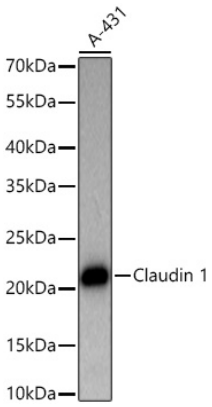
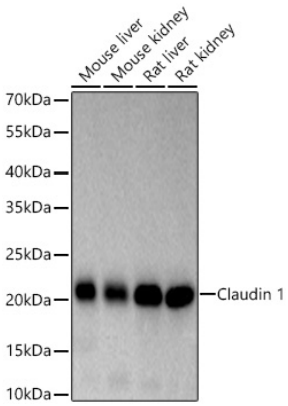
Validation Data



Western blot analysis of lysates from wild type (WT) and Claudin 1 knockdown (KD) Hep G2 cells using [KD Validated] Claudin 1 Rabbit mAb (A25902) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

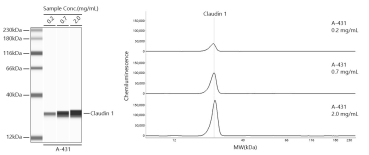


Western blot analysis of lysates from A-431 cells using [KD Validated] Claudin 1 Rabbit mAb (A25902) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

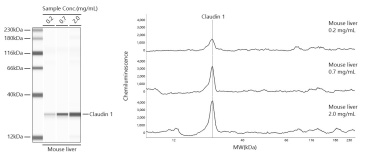


Western blot analysis of various lysates using [KD Validated] Claudin 1 Rabbit mAb (A25902) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.

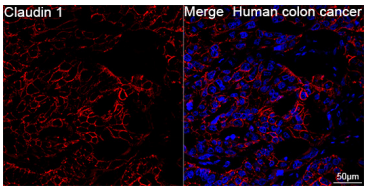
Validation Data



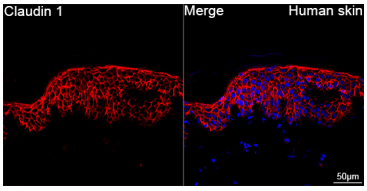
Simple Western™ analysis of lysates from A-431 cells using [KD Validated] Claudin 1 Rabbit mAb (A25902) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.



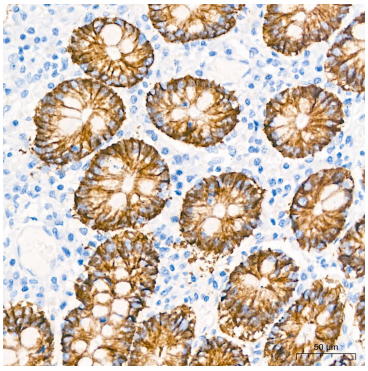
Simple Western™ analysis of lysates from Mouse liver using [KD Validated] Claudin 1 Rabbit mAb (A25902) at 1:100 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.2 mg/mL, 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.



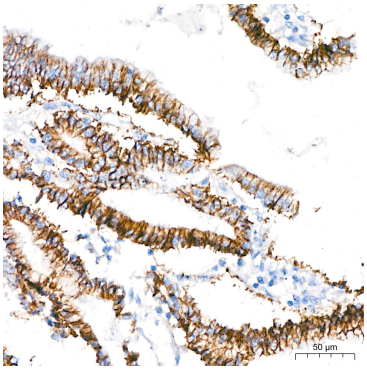
Confocal imaging of paraffin-embedded Human colon cancer tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.



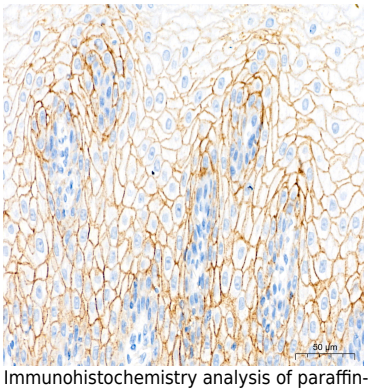
Confocal imaging of paraffin-embedded Human skin tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.



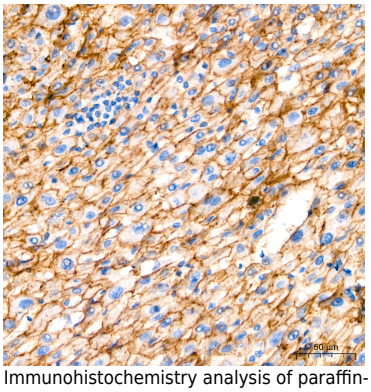
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



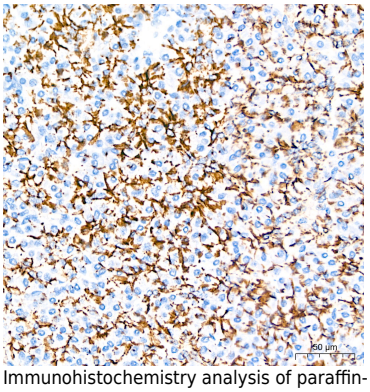
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-



Immunohistochemistry analysis of paraffin-



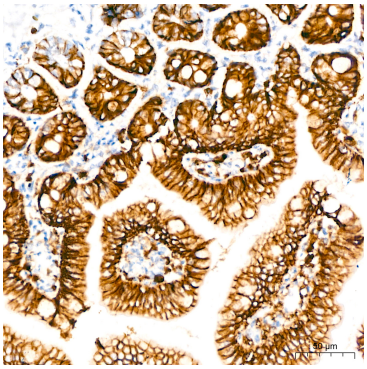
Immunohistochemistry analysis of paraffin-

Validation Data

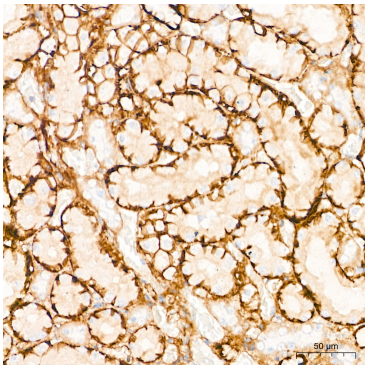
embedded Human esophagus tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

embedded Human liver tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.

embedded Human pancreas tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KD Validated] Claudin 1 Rabbit mAb (A25902) at a dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.