Datasheet for ABIN687337
anti-Occludin antibody (AA 431-522)

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<th>Overview</th>
<th>Validation</th>
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<tbody>
<tr>
<td>Quantity:</td>
<td>100 µL</td>
<td></td>
<td></td>
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<tr>
<td>Target: Occludin (OCLN)</td>
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<tr>
<td>Binding Specificity: AA 431-522</td>
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<tr>
<td>Reactivity: Human, Mouse, Pig</td>
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<td>Host: Rabbit</td>
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<tr>
<td>Clonality: Polyclonal</td>
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<tr>
<td>Conjugate: This Occludin antibody is un-conjugated</td>
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<tr>
<td>Application: Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))</td>
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Product Details

| Immunogen: KLH conjugated synthetic peptide derived from mouse Occludin | |
| Isotype: IgG | |
| Predicted Reactivity: Rat, Dog, Cow, Horse, Guinea Pig | |
| Purification: Purified by Protein A. | |

Target Details

| Target: Occludin (OCLN) | |
| Alternative Name: Occludin (OCLN Products) | |
### Target Details

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

**Subcellular location:** Cell membrane

**Synonyms:** Ocl, AI53564, Occludin, Ocln

**Gene ID:** 18260

**UniProt:** Q61146

**Pathways:** Cell-Cell Junction Organization, Hepatitis C

### Application Details

**Application Notes:**
- WB 1:300-5000
- ELISA 1:500-1000
- FCM 1:20-100
- IHC-P 1:200-400
- IF(IHC-P) 1:50-200
- IF(ICC) 1:50-200

**Restrictions:** For Research Use only

### Handling

**Format:** Liquid

**Concentration:** 1 μg/μL

**Buffer:** 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

**Preservative:** ProClin

**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**Storage:** -20 °C

**Storage Comment:** Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Expiry Date:** 12 months

### Publications

**Product cited in:** Sun, Liu, Xue, Wang: "Effects of insulin combined with idebenone on blood-brain barrier permeability in diabetic rats." in: Journal of neuroscience research, Vol. 93, Issue 4, pp. 666-77,
Publications


Images

Immunohistochemistry (Paraffin-embedded Sections)

Image 1. HQT regulates epithelial proliferation in the colonic mucosa of mice with DSS-induced acute and chronic colitis. Mice were administered regular water (control) or 3.5 % DSS for 7 days followed by treatment with HQT for 7 days. (a-c) Immunohistochemical analysis of tight junction proteins occluding, ZO-1 and proliferating cells detected based on Ki67 in colon sections in DSS-induced acute colitis mice. (magnification, x200). Graphical representation of the percentage of occluding, ZO-1 and Ki67-positive cells in the mid-colon. Results are expressed as means±SD of three independent experiments, n=8 mice per group. *p<0.05, **p<0.001 vs. the control group, p<0.05, p<0.001 vs. DSS-treated mice. Mice received three cycles of DSS treatment.
(2.5 %), each cycle consisting of 7 days of water containing DSS followed by 14 days of tap water, followed by treatment with HQT for 7 days. (d) Immunohistochemical analysis of proliferating cells detected based on Ki67 in colon sections in mice with DSS-induced chronic colitis (magnification, x200). Graphical representation of the percentage of Ki67-positive cells in the mid-colon. Results are expressed as means±SD of three independent experiments, n=8 mice per group. *p<0.05, **p<0.001 vs. the control group, p<0.05, p<0.001 vs. DSS-treated mice. - figure provided by CiteAb.

Source: PMID27982094

**Immunohistochemistry**

**Image 2.** Formalin-fixed and mouse kidney tissue labeled with Anti-Occludin Polyclonal Antibody, Unconjugated (ABIN687337) at 1:200 followed by conjugation to the secondary antibody and DAB staining

**Immunohistochemistry**

**Image 3.** Formalin-fixed and paraffin embedded mouse embryo tissue labeled with Anti-Occludin Polyclonal Antibody, Unconjugated (ABIN687337) at 1:100 followed by conjugation to the secondary antibody and DAB staining

Please check the product details page for more images. Overall 9 images are available for ABIN687337.
Validation report #029632 for Immunofluorescence (IF)

Successfully validated (Immunofluorescence (IF))

by Confocal Imaging Core, Beth Israel Deaconess Medical Center

Report Number: 029632

Date: Mar 23 2014

Lot Number: 990698W

Method validated: Immunofluorescence (IF)

Positive Control: Mouse stomach tissue

Negative Control: Human fat tissue

Notes: Signal was detected in positive control sample and not in negative control sample.

Primary Antibody:
- Antibody: Occludin (OCLN) - Catalog number: ABIN687337 - Supplier: Bioss - Supplier catalog number: bs-1495r - Lot number: 990698W

Secondary Antibody:
- Antibody: Donkey anti-Rabbit IgG (Heavy & Light Chain) Antibody (Alexa 647) - Supplier: Jackson Immuno Research - Catalog number: 711-605-152

Isotype:
- Antibody: Rabbit IgG - Supplier: Bioss - Catalog number: bs-0295p

Controls:
- Positive control: PPFE mouse stomach tissue
- Negative Control: PPFE human fat tissue
- Isotype antibody control: tissue sections treated with Rabbit IgG Isotype at 1ug/ul , Bioss bs-0295p
- Secondary antibody only control: positive and negative control tissue sections treated with Goat anti-Rabbit Alexa 647 secondary antibody only.

Protocol:
- Paraffin embedded positive and negative control tissue sections were deparaffinized and undergone antigen retrieval using 10 mM Sodium Citrate pH6 in a pressure cooker for 10 min.
- The tissue sections were incubated with 1 mg/mL Sodium borohydride for 10 min at room temperature to block autofluorescent background signal. The sections were then rinsed three times in TBS for 5 min each at RT.
- Tissue sections were blocked in 1 X TBS / 5% normal donkey serum for 60 min at RT.
- Tissue sections were incubated with primary antibody diluted 1:200 in 1X PBS / 5% normal donkey serum overnight at 4°C.
- Tissue sections were rinsed three times in TBS for 5 min each at RT.
- Cells were incubated with secondary antibody diluted 1:200 in 1X PBS / 5% normal donkey serum for 60 min at RT in dark.
- Tissue sections were rinsed three times in TBS for 5 min each at RT.
Validation report #029632 for Immunofluorescence (IF)

- Coverslips were mounted on slides with Prolong Gold anti-fade mounting media (Invitrogen)
- IF stained tissue sections were imaged with a Zeiss LSM 510 Meta confocal microscope.

Experimental Notes:
- No challenges notes
- OCLN is recommended to staining of mouse stomach tissue according to this protocol.

Image for Validation report #029632

Validation image no. 1 for anti-Occludin (OCLN) (AA 431-522) antibody (ABIN687337)

Figure 1: Immunostaining (green) of mouse stomach tissue (A-C) and human fat tissue (D-F) with anti-OCLN (A, D), isotype control antibody (B, E), or with secondary alone (C, F). Tissues were counterstained with DAPI (blue).