

Product Datasheet

ACE2 Antibody (orb1239144)

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| Catalog Number | orb1239144 |
| Category | Antibodies |
| Description | ACE2 Antibody |
| Target | ACE2 |
| Clonality | Polyclonal |
| Species/Host | Rabbit |
| Isotype | IgG |
| Conjugation | Unconjugated |
| Reactivity | Human, Mouse, Rat |
| Predicted Reactivity | Bovine |
| Form/Appearance | Liquid |
| Concentration | 1 mg/mL |
| Buffer/Preservatives | ACE2 Antibody is supplied in PBS containing 0.02% sodium azide. |
| Purification | ACE2 Antibody is affinity chromatography purified via peptide column. |
| Immunogen | Anti-ACE2 antibody (orb1239144) was raised against a peptide corresponding to 18 amino acids near the carboxy terminus of human ACE2. The immunogen is located within the last 50 amino acids of ACE2. |
| UniProt ID | Q9BYF1 |
| MW | Predicted: 93kD Observed: 130 kD (7 N-linked glycosylation) |

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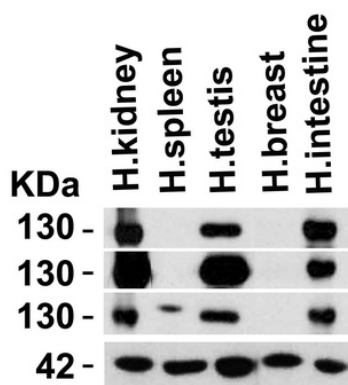
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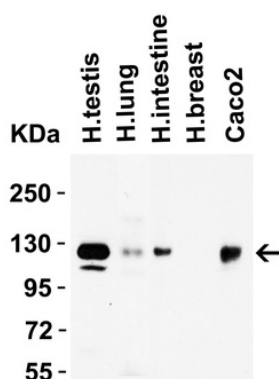
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|----------------------------|---|
| Tested applications | ELISA, IF, IHC-P, WB |
| Specificity | Anti-ACE2 has no cross response to ACE1. |
| Antibody Type | Primary Antibody |
| Modifications | None |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| NCBI | NP_068576 |
| Expiration Date | 12 months from date of receipt. |



Independent Antibody Validation (IAV) via Protein Expression Profile in Human Tissues. Loading: 15 µg of lysates per lane. Antibodies: ACE2, orb1239146 (2 µg/mL), ACE2, orb1239144 (2 µg/mL), ACE2, orb1239144 (2 µg/mL) and beta-actin orb1240312 (1 µg/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Human Tissues and Cell Line. Loading: 15 µg of lysates per lane. Antibodies: ACE2, orb1239144 (2 µg/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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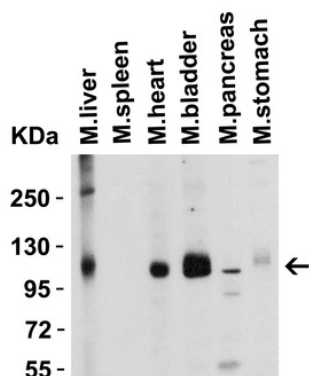
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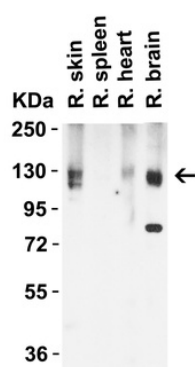
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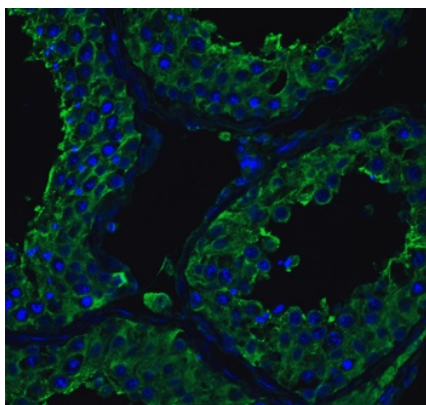
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Western Blot Validation in Mouse Tissues. Loading: 15 µg of lysates per lane. Antibodies: ACE2, orb1239144 (2 µg/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Rat Tissues. Loading: 15 µg of lysates per lane. Antibodies: ACE2, orb1239144 (2 µg/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of ACE2 in Human Testis Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human testis tissue labeling ACE-2 with orb1239144 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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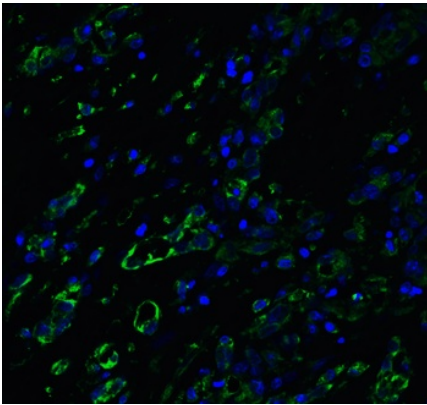
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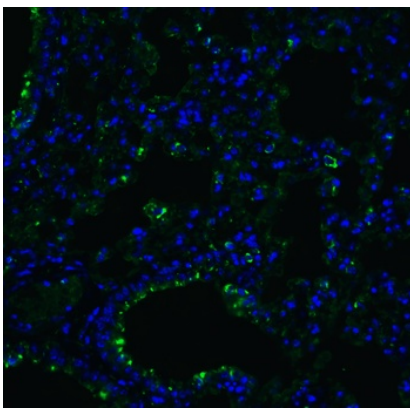
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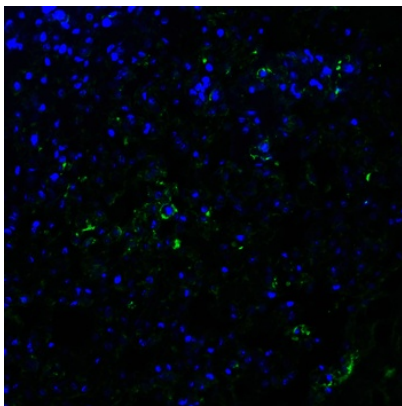
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Immunofluorescence Validation of ACE2 in Human Lung Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human lung tissue labeling ACE-2 with orb1239144 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunofluorescence Validation of ACE2 in Mouse Lung Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse lung tissue labeling ACE-2 with orb1239144 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunofluorescence Validation of ACE2 in Rat Lung Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed rat lung tissue labeling ACE-2 with orb1239144 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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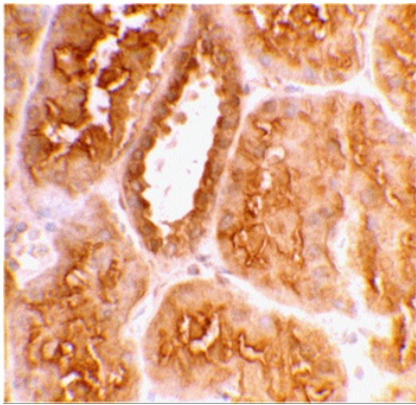
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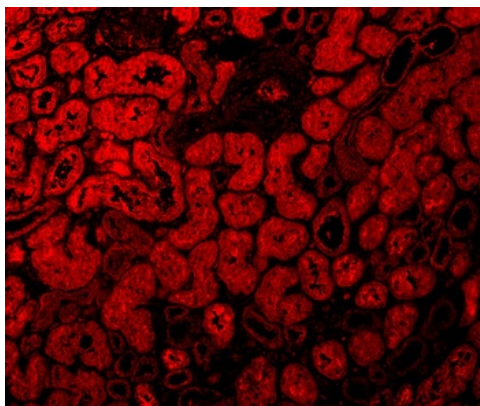
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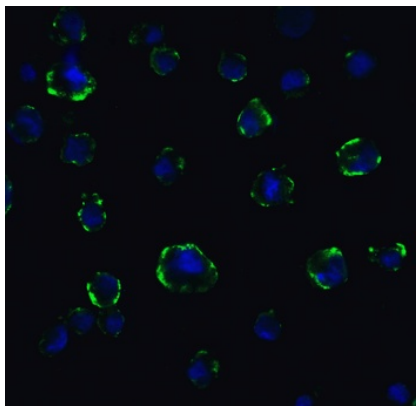
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Immunohistochemistry Validation of ACE2 in Human Kidney Tissue. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ACE2 antibody (orb1239144) at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of ACE2 in Human Kidney Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human kidney cells labeling ACE2 with orb1239144 at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



Immunofluorescence Validation of ACE2 In Caco2 Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed Caco2 cells labeling ACE2 with orb1239144 at 5 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue). Image showing membrane staining on Caco2 cells.

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