

Product Datasheet

ACE2 Antibody (orb1239148)

Catalog Number	orb1239148
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 (orb1239148) was raised against a peptide corresponding to 14 amino acids near the amino terminus of human ACE2. The immunogen is located within the first 50 amino acids of ACE2.
UniProt ID	Q9BYF1
MW	Predicted: 93kD Observed: 130 kD (7 N-linked glycosylation)

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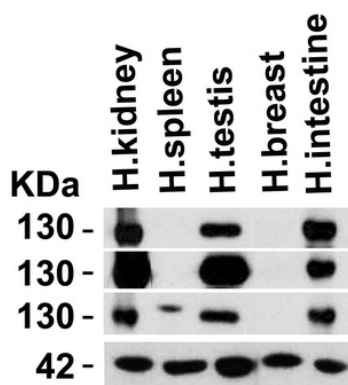
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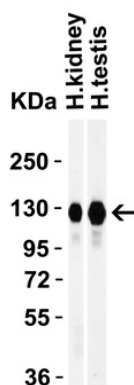
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Tested applications	ELISA, IF, IHC-P, WB
Specificity	Anti-ACE2 has no cross response to ACE1.
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small 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, orb1239148 (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. Loading: 15 µg of lysates per lane. Antibodies: ACE2, orb1239148 (1 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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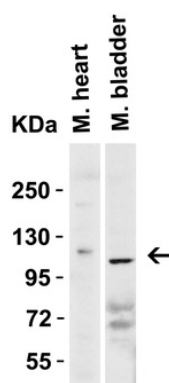
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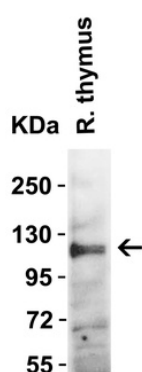
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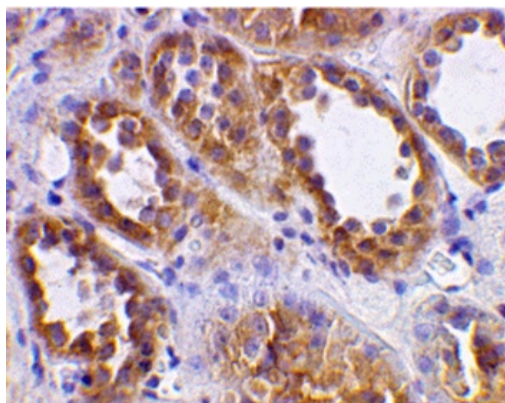
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Western Blot Validation in Mouse Tissues. Loading: 15 μ g of lysates per lane. Antibodies: ACE2, orb1239148 (2 μ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Rat Thymus Tissue. Loading: 15 μ g of lysates per lane. Antibodies: ACE2, orb1239148 (2 μ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry Validation of ACE2 in Human Kidney Tissue. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ACE2 antibody (orb1239148) at 2 μ g/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.

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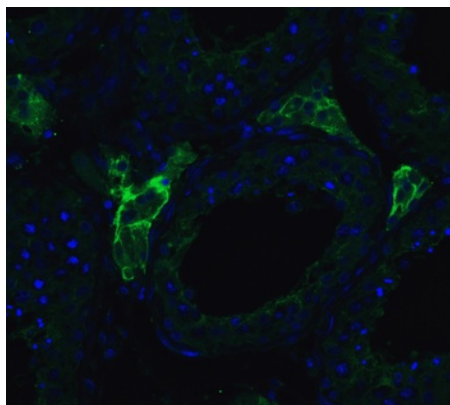
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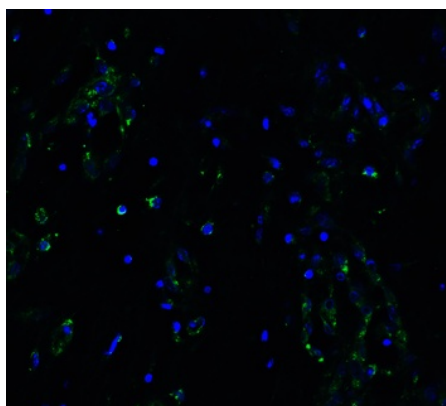
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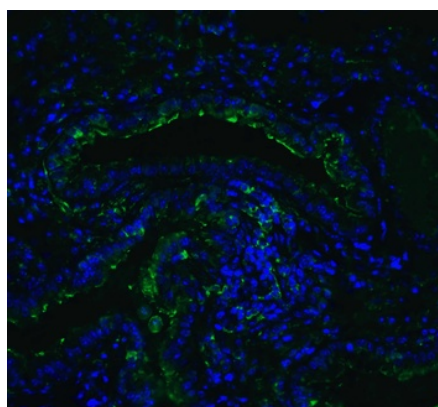
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Immunofluorescence Validation of ACE2 in Human Testis Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human testis tissue labeling ACE-2 with orb1239148 at 20 $\mu\text{g}/\text{mL}$, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunofluorescence Validation of ACE2 in Human Lung Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human lung tissue labeling ACE-2 with orb1239148 at 20 $\mu\text{g}/\text{mL}$, 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 orb1239148 at 20 $\mu\text{g}/\text{mL}$, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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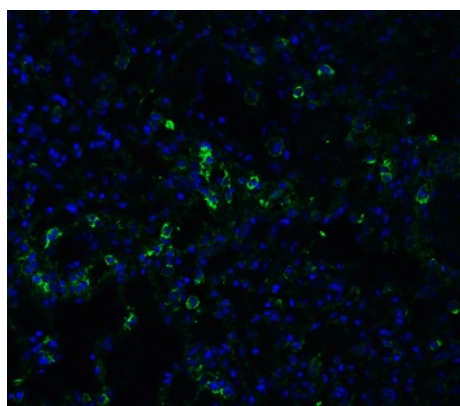
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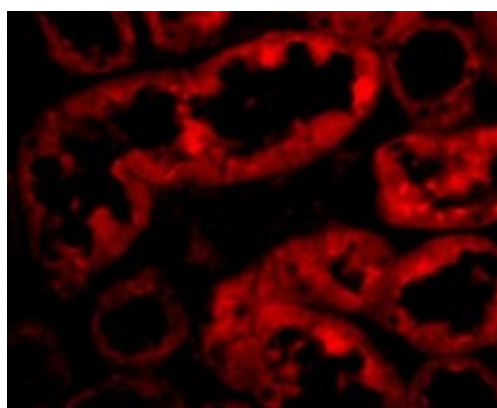
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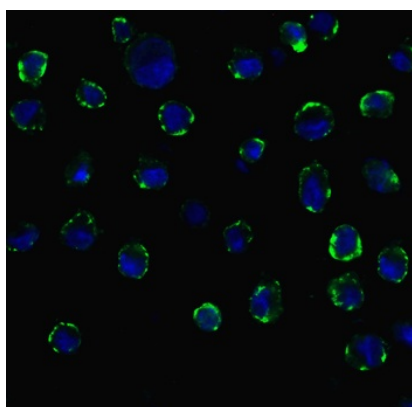
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Immunofluorescence Validation of ACE2 in Rat Lung Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed rat lung tissue labeling ACE-2 with orb1239148 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunofluorescence Validation of ACE2 in Human Kidney Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed human kidney cells labeling ACE2 with orb1239148 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 orb1239148 at 20 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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