

# Product Datasheet

## Carbonic Anhydrase II/CA2 Antibody (11A2-R) NBP3-32105

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32105****Carbonic Anhydrase II/CA2 Antibody (11A2-R)**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	11A2-R
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH7.4), 0.1% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	29 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Carbonic Anhydrase II/CA2 Antibody (11A2-R) (NBP3-32105) is a recombinant monoclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	760
<b>Gene Symbol</b>	CA2
<b>Species</b>	Human
<b>Immunogen</b>	Recombinant protein within Human Carbonic Anhydrase II/CA2 aa 63-240 / 260. (Uniprot: P00918)

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:2000



## Images

**Western Blot: Carbonic Anhydrase II/CA2 Antibody (11A2-R) [NBP3-32105]** - Western blot analysis of Carbonic Anhydrase II/CA2 on different lysates with Mouse anti-Carbonic Anhydrase II/CA2 antibody (NBP3-32105) at 1/1,000 dilution.

Lane 1: THP-1 cell lysate  
Lane 2: HEK-293 cell lysate  
Lane 3: A431 cell lysate

Lysates/proteins at 20 ug/Lane.

Predicted band size: 29 kDa  
Observed band size: 29 kDa

Exposure time: 40 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-32105) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

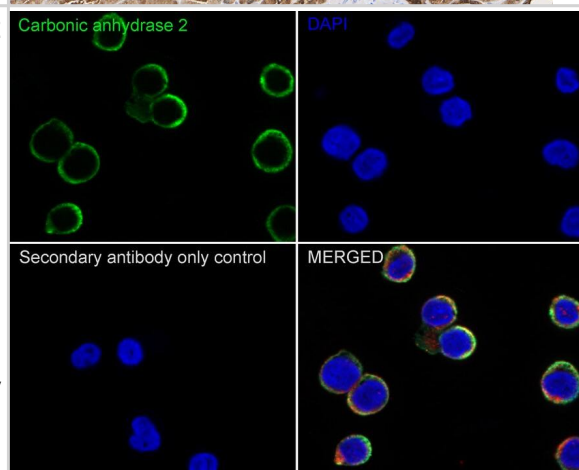
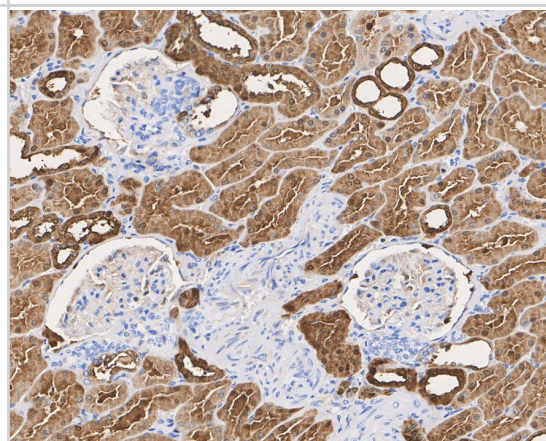
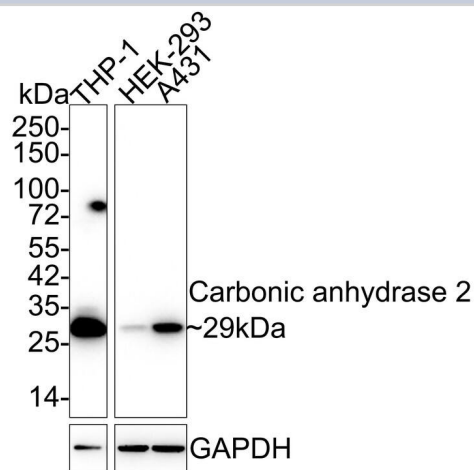
**Immunohistochemistry: Carbonic Anhydrase II/CA2 Antibody (11A2-R) [NBP3-32105]** - Immunohistochemical analysis of paraffin-embedded human kidney tissue with Mouse anti-Carbonic Anhydrase II/CA2 antibody (NBP3-32105) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32105) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Immunocytochemistry/ Immunofluorescence: Carbonic Anhydrase II/CA2 Antibody (11A2-R) [NBP3-32105]** - Immunocytochemistry analysis of THP-1 cells labeling Carbonic Anhydrase II/CA2 with Mouse anti-Carbonic Anhydrase II/CA2 antibody (NBP3-32105) at 1/100 dilution.

Cells were fixed in 80% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-Carbonic Anhydrase II/CA2 antibody (NBP3-32105) at 1/100 dilution in 1% BSA in PBST overnight at 4°C. Goat Anti-Mouse IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594) were used as the secondary antibody at 1/1,000 dilution.





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### **Products Related to NBP3-32105**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-52240-0.02mg	Recombinant E. coli Carbonic Anhydrase II/CA2 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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