

# Product Datasheet

## Carbonic Anhydrase XII/CA12 Antibody - BSA Free NBP1-81668

Unit Size: 0.1 ml

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

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**NBP1-81668****Carbonic Anhydrase XII/CA12 Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Carbonic Anhydrase XII/CA12 Antibody - BSA Free (NBP1-81668) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Carbonic Anhydrase XII/CA12 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	771
<b>Gene Symbol</b>	CA12
<b>Species</b>	Human
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (88%), Rat (88%). Reactivity reported in scientific literature (PMID: 22016510)
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: TASNKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVKYKGQEA FVPGFNIEELLPE RTAEYYRYRGSLLTTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPS PREMINNFRQVQ

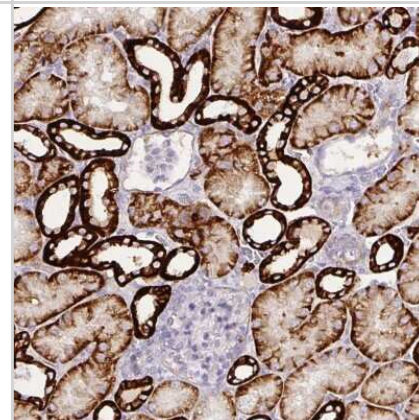
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot Reported in (PMID: 26911677)., Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

## Images

Immunocytochemistry/Immunofluorescence: Carbonic Anhydrase XII/CA12 Antibody [NBP1-81668] - Staining of human cell line RT4 shows localization to nucleus. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: Carbonic Anhydrase XII/CA12 Antibody [NBP1-81668] - Staining of human kidney shows strong cytoplasmic and membranous positivity in cells in tubules.



## Publications

Lee M, Vecchio-Pagan B, Sharma N et al. Loss of carbonic anhydrase XII function in individuals with elevated sweat chloride concentration and pulmonary airway disease Hum. Mol. Genet. 2016-02-23 [PMID: 26911677] (IHC-P, WB, Human)

Vermeulen JF, Kornegoor R, van der Wall E et al. Differential expression of growth factor receptors and membrane-bound tumor markers for imaging in male and female breast cancer. PLoS One. 2013-01-04 [PMID: 23308200] (IF/IHC)

Tafreshi NK, Bui MM, Bishop K et al. Noninvasive detection of breast cancer lymph node metastasis using carbonic anhydrases IX and XII targeted imaging probes. Clin Cancer Res 2012-01-01 [PMID: 22016510]

Vermeulen JF, van Brussel AS, van der Groep P et al. Immunophenotyping invasive breast cancer: paving the road for molecular imaging. BMC Cancer 2012-06-01 [PMID: 22695343]

Davidson B, Stavnes HT, Holth A et al. Gene expression signatures differentiate ovarian/peritoneal serous carcinoma from breast carcinoma in effusions. J Cell Mol Med 2011-03-01 [PMID: 20132413]



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### **Products Related to NBP1-81668**

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NBP1-81668PEP	Carbonic Anhydrase XII/CA12 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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