

# Product Datasheet

## Carbonic Anhydrase IX/CA9 Antibody (66.4.C2 (PN-15)) NBP2-15199-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-15199-0.1mg**

Carbonic Anhydrase IX/CA9 Antibody (66.4.C2 (PN-15))

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	66.4.C2 (PN-15)
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	55 kDa

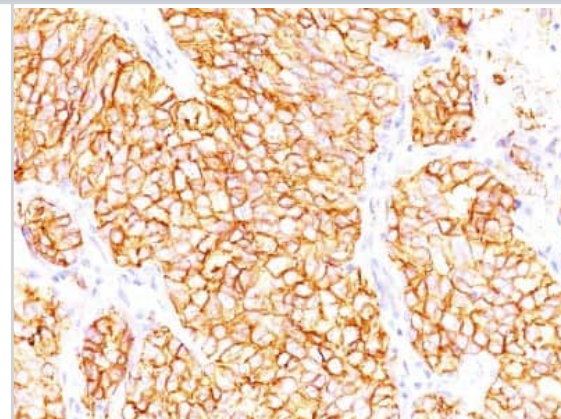
Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-33152)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	768
Gene Symbol	CA9
Species	Human, Equine
Specificity/Sensitivity	<p>Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Its epitope resides in the carbohydrate domain of gp200. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens. In normal kidney, gp200 is localized along the brush border of the pars convoluta and pars recta segments of the proximal tubule, as well as focally along the luminal surface of Bowmans capsule adjoining the outgoing proximal tubule. Reportedly, gp200 is expressed by 93% of primary and 84% of metastatic renal cell carcinomas. This monoclonal antibody may be useful in the investigations of carcinomas of proximal nephrogenic differentiation especially those showing tubular differentiation.</p>
Immunogen	Microsomal fraction of human renal cortical tissue homogenate

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml
Application Notes	<p>Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.</p> <p>Trypsin (10 min at 37C) is recommend for antigen retrieval (Bayder &amp; Aydin, 2008).</p>



## Images

Immunohistochemistry-Paraffin: Carbonic Anhydrase IX/CA9 Antibody (66.4.C2 (PN-15)) [NBP2-15199] - FFPE human renal cell carcinoma stained with RCC Ab (66.4.C2). Note cytoplasmic & cell surface staining of tumor cells.



## Publications

Kusafuka K, Onitsuka T, Terada T Sinonasal renal cell-like adenocarcinoma with EGFR overexpression of the maxillary sinus: Report of a high-grade case and a review of the literature Human Pathology: Case Reports 2020-01-01 (IF/IHC, Human)

Swain JM, Pirie RS, Hudson NP et al. Insulin-like growth factors and recurrent hypoglycemia associated with renal cell carcinoma in a horse. J Vet Intern Med. 2005-07-01 [PMID: 16095185] (IHC-P)

Details:  
IHC (P), Fig 4 (mass of unknown origin in a horse). Note: The antibody helped define the mass as a renal cell carcinoma.

Murakami A, Gomi K, Tanaka M et al. Unilateral glomerulocystic kidney disease associated with tuberous sclerosis complex in a neonate. Pathol Int. 2012-03-01 [PMID: 22360510] (IHC-P, Human)

Details:  
IHC (P): Table 1 (kidney mass from a human neonate).

Chen CJ, Hsu HT, Lin MT et al. Renal cell carcinoma with t(X;17)(p11.2;q25) in a 5-year-old Taiwanese boy: a case report and review of the literature. Pathol Oncol Res. 2012-01-01 [PMID: 21221873] (IHC-P, Human)

Details:  
IHC(P): human renal tumor (results described).

Ingold B, Wild PJ, Nocito A et al. Renal cell carcinoma marker reliably discriminates central nervous system haemangioblastoma from brain metastases of renal cell carcinoma. Histopathology. 2008-05-01 [PMID: 18393979] (IHC-P, Human)

Details:  
IHC(P): human renal cell carcinoma and their metastases, haemangioblastoma (results described).

Baydar D, Aydin O. Confusing cases: clear cell but not renal cell lesions in kidney. Pathol Int. 2008-11-01 [PMID: 18844937] (IHC-P, Human)

Details:  
IHC (P): Table 1 (human kidney lesions).



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### **Products Related to NBP2-15199-0.1mg**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NB100-417PEP	Carbonic Anhydrase IX/CA9 Antibody Blocking Peptide

### **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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