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carbonic anhydrase XII (aa188-199) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF4059a

Specification

carbonic anhydrase XII (aa188-199) Antibody (internal region) - Product Information

Application	**WB, IHC**
Primary Accession	O43570
Other Accession	NP_001209.1, NP_996808.1, 771
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**39451**

carbonic anhydrase XII (aa188-199) Antibody (internal region) - Additional Information

Gene ID 771

Other Names
Carbonic anhydrase 12, 4.2.1.1, Carbonate dehydratase XII, Carbonic anhydrase XII, CA-XII, Tumor antigen HOM-RCC-3.1.3, CA12

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
carbonic anhydrase XII (aa188-199) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

carbonic anhydrase XII (aa188-199) Antibody (internal region) - Protein Information

Name CA12 (HGNC:1371)

Function
Reversible hydration of carbon dioxide.

Cellular Location
Membrane; Single-pass type I membrane protein. Cell membrane

Tissue Location
Highly expressed in colon, kidney, prostate, intestine and activated lymphocytes. Expressed at

much higher levels in the renal cell cancers than in surrounding normal kidney tissue Moderately expressed in pancreas, ovary and testis. Expressed in sweat glands and bronchiolar epithelium (PubMed:26911677)

carbonic anhydrase XII (aa188-199) Antibody (internal region) - Protocols

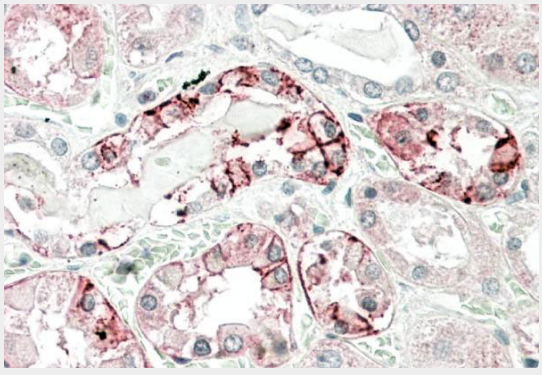
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

carbonic anhydrase XII (aa188-199) Antibody (internal region) - Images



AF4059a (0.3 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF4059a (5 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

carbonic anhydrase XII (aa188-199) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_001209.1; NP_996808.1).

carbonic anhydrase XII (aa188-199) Antibody (internal region) - References

Autosomal recessive hyponatremia due to isolated salt wasting in sweat associated with a mutation in the active site of Carbonic Anhydrase 12. Muhammad E et al. Hum Genet. 2011 Apr;129(4):397-405. PMID: 21184099