

Datasheet for ABIN1724883
anti-CA9 antibody (AA 37-186)

6 Images

2 Publications

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Overview

Quantity:	0.1 mg
Target:	CA9
Binding Specificity:	AA 37-186
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CA9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human CA9 (AA: 37-186) expressed in E. coli.
Clone:	7C4A5
Isotype:	IgG1
Purification:	purified

Target Details

Target:	CA9
Alternative Name:	CA9 (CA9 Products)
Background:	Description: Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes,

Target Details

including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA IX is a transmembrane protein and the only tumor-associated carbonic anhydrase isoenzyme known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. , Aliases: MN, CAIX

Molecular Weight:	49.7 kDa
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Gene ID:	768
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HGNC:	768
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Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Purified antibody in PBS with 0.05 % sodium azide
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Preservative:	Sodium azide
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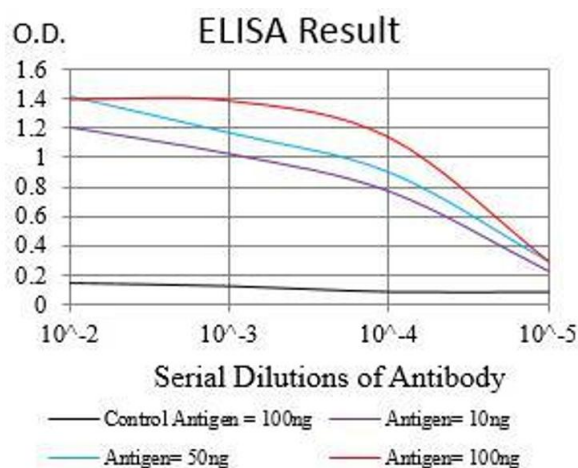
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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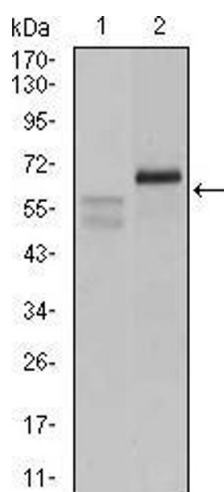
Publications

Product cited in:	Nayernia, Adham, Burkhardt-Göttges, Neesen, Rieche, Wolf, Sancken, Kleene, Engel: "Asthenozoospermia in mice with targeted deletion of the sperm mitochondrion-associated cysteine-rich protein (Smcp) gene." in: Molecular and cellular biology , Vol. 22, Issue 9, pp. 3046-52, (2002) (PubMed).
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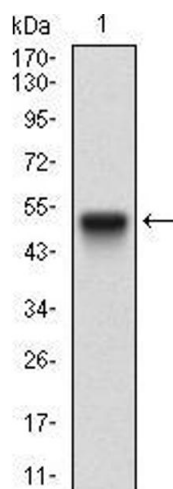
ELISA

Image 1. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



Western Blotting

Image 2. Western blot analysis using CA9 mouse mAb against A431 (1) and SW620 (2) cell lysate.



Western Blotting

Image 3. Western blot analysis using CA9 mAb against human CA9 recombinant protein. (Expected MW is 42 kDa)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN1724883.