amsbio

Name:Purified anti-CA9 (Carbonic Anhydrase IX) mouse monoclonal antibody, clone 1G7 **Product Data Sheet**	**Catalog: TA500623**

Gene Name:Homo sapiens carbonic anhydrase IX (CA9)
GeneBank accession: NM_001216
Isotype: IgG2b

Reactivity: Human
Test application: WB
Clone Name: clone 1G7

Gene Synonym: CAIX; MN

Guaranteed Applications: WB, IHC, FC

Suggested Dilutions: WB 1:2000, IHC 1:50, Flow 1:100

Immunogen: Protein expressed in 293T cell transfected with human CA9 expression vector

Components:
- Purified anti-CA9 (Carbonic Anhydrase IX) mouse monoclonal antibody, clone 1G7 (TA500623)
- 1 vial of 20ug myc-DDK tagged CA9 HEK293T over-expression lysate lyophilized in RIPA buffer (LY400485) (Reconsitute into 20ul of 1x SDS sample buffer before loading)

Amount:
TA500623-100 100ul

Concentration: 0.5~1.0 mg/ml (Lot Dependent)

Storage Condition: Shipped at 4C. Upon delivery store at -20C. Dilute in PBS (pH7.3) before use.
Stable for 12 months from date of receipt.
Avoid repeated freeze-thaws.

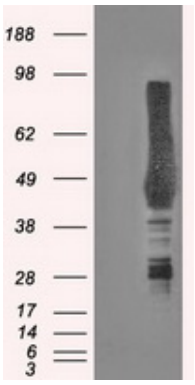
Buffer: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Purification:
Purified from mouse ascites fluids by affinity chromatography

Background:
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, including respiration, calcification, acid-basebalance, 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.

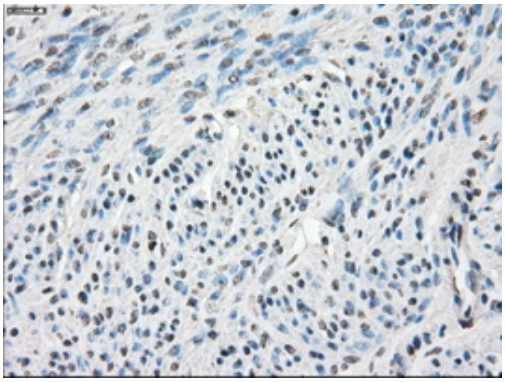
Validation Data:

Western Blot



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CA9 (RC204839, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CA9.

IHC data



Immunohistochemical staining of paraffin-embedded endometrium tissue using anti-CA9mouse monoclonal antibody. (TA500623, Dilution 1:50)

Related Product:
TrueORF cDNA clones
VERIFY Tagged Antigen lysates
HuSH-29 shRNA
Western Blot reagents
Anti-myc/DDK tag antibodies

* Peptide sequence of the DDK-tag (Flag®): N-DYKDDDDK-C Flag® is a registered trademark of Sigma-Aldrich

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

UK & Rest of World
184 Milton Park, Abingdon
OX14 4SE, Oxon, UK
Tel: +44 (0) 1235 828 200
Fax: +44 (0) 1235 820 482

Switzerland
Centro Nord-Sud 2E
CH-6934 Bioggio-Lugano
Tel: +41 (0) 91 604 55 22
Fax: +41 (0) 91 605 17 85

Deutschland
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
Tel: +49 (0) 69 779099
Fax: +49 (0) 69 13376880

North America
23591 El Toro Rd, Suite #180
Lake Forest, CA 92630
Tel: + 1 800 987 0985
Fax: + 1 949 265 7703

amsbio
info@amsbio.com
www.amsbio.com
AMS Biotechnology