Data Sheet (Cat.No.TMAC-00557)

Anti-Carbonic Anhydrase 9 Antibody (7H302)

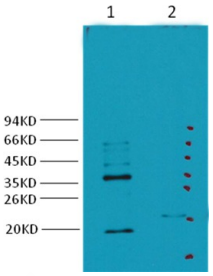
Product Details

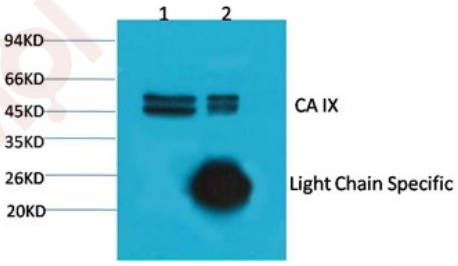
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Actual: 49 kDa.
Clone:	7H302
Purification:	Affinity purification using immunogen.

Applications

Verified Activity:

1. Western blot analysis of 1) Hela, 2) 293T, using TMAC-00557 diluted at 1:5,000.
2. 1Input: Hela Cell Lysate, 2IP product: IP dilute 1:200, Western blot analysis: primary antibody : TMAC-00557 1:2,000, Secondary antibody: Goat anti-Mouse IgG, Light chain specific, 1:5,000.





Application:	IP,WB
Recommended	WB: 1:3000-5000; IP: 1:200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Uniprot ID:	Q16790
Synonyms:	Carbonate dehydratase IX;pMW1;Membrane antigen MN;Renal cell carcinoma-associated antigen G250;Carbonic anhydrase 9;P54/58N;Carbonic anhydrase IX

Research Background

The carbonic anhydrases (or carbonate dehydratases) form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons (or vice versa), a reversible reaction that occurs rather slowly in the absence of a catalyst. CAIX is considered to be one of the best cellular biomarkers of hypoxia. Furthermore, recent studies examining the association between CAIX levels and various clinicopathological outcomes suggest that CAIX expression may also be a valuable prognostic indicator for overall survival. Antibodies against CAIX serve as excellent excellent biomarkers of hypoxic regions in many solid tumors

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