

## Anti-CA9/Carbonic Anhydrase IX Antibody (4F130)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4F130
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of Human CAIX expression on Hela cells. Cells were stained with purified anti-Human CAIX, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	FCM: 1:25-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human Carbonic Anhydrase IX/CA9 Protein (TMPY-00690)
Antigen Species:	Human
Synonyms:	P54/58N;G250;CA9;RCC;CA-IX;EC 4.2.1.1;PMW1;Carbonic Anhydrase IX;MN;CAIX
Biology Area:	Cancer Drug Targets

## Research Background

Carbonic anhydrases IX (CA IX), also known as membrane antigen MN or CA9, is a member of the carbonic anhydrase (CA) family and may be involved in cell proliferation and cellular transformation. CAs are zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide ( $H_2O + CO_2 = H^+ + HCO_3^-$ ) and thus participate in a variety of biological and physical processes. CA IX protein is expressed primarily in carcinoma cells lines, and the expression is cell density dependent and has been shown to be strongly induced by hypoxia, accordingly facilitates adaptation of tumor cells to hypoxic conditions. It is involved in tumorigenesis through many pathways, such as pH regulation and cell adhesion control. CA IX is used as a marker of tumor hypoxia and as a new therapeutic target for many human carcinomas and cancers. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481