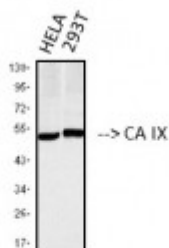


Anti-CA IX antibody



Western Blot (WB) analysis of 1. HELA 2. 293T cells using CA IX Monoclonal Antibody. (STJ96978)



Description

CA IX is a protein encoded by the CA9 gene which is approximately 49,6 kDa. CA IX is localised to the nucleus and cytoplasm. It is involved in CDK-mediated phosphorylation and removal of Cdc6, nitrogen metabolism, angiogenesis and glucose metabolism. It is a zinc metalloenzyme that catalyses the reversible hydration of carbon dioxide. It participates in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of cerebrospinal fluid, saliva, and gastric acid. CA IX is expressed in the intestine, stomach, gall bladder and kidney. Mutations in the CA9 gene may result in kidney cancer and hypoxia. STJ96978 was developed from clone 12F10 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This antibody detects endogenous CA IX proteins.

Model	STJ96978
Host	Mouse
Reactivity	Human
Applications	IP, WB
Immunogen	Synthetic Peptide
Gene ID	768
Gene Symbol	CA9
Dilution range	WB 1:3000IP 1:200
Specificity	The antibody detects endogenous CA IX proteins.
Tissue Specificity	Expressed primarily in carcinoma cells lines. Expression is restricted to very

few normal tissues and the most abundant expression is found in the epithelial cells of gastric mucosa.

Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	12F10
Note	For Research Use Only (RUO).
Protein Name	Carbonic anhydrase 9 Carbonate dehydratase IX Carbonic anhydrase IX CA-IX CAIX Membrane antigen MN P54/58N Renal cell carcinoma-associated antigen G250 RCC-associated antigen G250 pMW1
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1383OMIM:603179
Alternative Names	Carbonic anhydrase 9 Carbonate dehydratase IX Carbonic anhydrase IX CA-IX CAIX Membrane antigen MN P54/58N Renal cell carcinoma-associated antigen G250 RCC-associated antigen G250 pMW1
Function	Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia.
Cellular Localization	Nucleus Nucleus, nucleolus Cell membrane Cell projection, microvillus membrane. Found on the surface microvilli and in the nucleus, particularly in nucleolus.
Post-translational Modifications	Asn-346 bears high-mannose type glycan structures.