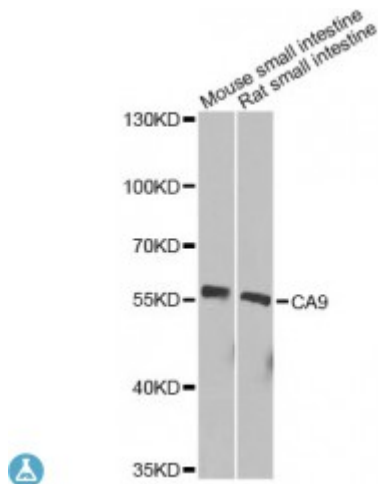


## Anti-CA9 Antibody



### 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, 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 is one of only two tumor-associated carbonic anhydrase isoenzymes 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.

<b>Model</b>	STJ115637
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	IHC, WB
<b>Immunogen</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 52-151 of human CA9 (NP_001207.2).
<b>Gene ID</b>	<a href="#">768</a>
<b>Gene Symbol</b>	<a href="#">CA9</a>
<b>Dilution range</b>	WB 1:500 - 1:2000 IHC 1:50 - 1:200
<b>Tissue Specificity</b>	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
<b>Purification</b>	Affinity purification
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Carbonic anhydrase 9
<b>Molecular Weight</b>	49.698 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage Instruction</b>	Store at -20C. Avoid freeze / thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:1383OMIM:603179Reactome:R-HSA-1234158</a>
<b>Alternative Names</b>	Carbonic anhydrase 9
<b>Function</b>	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,
<b>Cellular Localization</b>	Nucleus,
<b>Post-translational Modifications</b>	Asn-346 bears high-mannose type glycan structures