

## Anti-Carbonic Anhydrase 12 Antibody-FITC (7S411)

## Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	FITC
Clone:	7S411
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of anti-Human CA12 on MCF-7 cells. The Anti-Carbonic Anhydrase 12 Antibody-PE (7S411) and Anti-Carbonic Anhydrase 12 Antibody-FITC (7S411) monoclonal antibodies cross-block binding, suggesting recognition of overlapping epitopes.
Application:	FCM
Recommended	5 µl/Test, 0.1 mg/ml

## Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human Carbonic Anhydrase XII / CA12 protein (TMPY-00694)
Antigen Species:	Human
Synonyms:	CA12;CAXII;carbonic anhydrase XII;HsT18816;FLJ20151

## Research Background

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes first discovered in 1933 that catalyze the reversible hydration of carbon dioxide. CAs 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. CA12, also known as Car12 and carbonic anhydrase XII, is a type I membrane enzyme of an N-terminal extracellular catalytic domain, a membrane-spanning  $\alpha$ -helix, and a small intracellular C-terminal domain. It is highly expressed in colon, kidney, prostate, intestine and activated lymphocytes and moderately expressed in pancreas, ovary, and testis. Overexpression of the CA12 is observed in certain human cancers and is used as a tumor marker. rmCA12 corresponds to the extracellular domain and has both carbonic anhydrase activity and esterase activity.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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