

Recombinant Full Length Human CA11 Protein, GST-tagged

Cat. No. CA11-2732HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA11 full-length ORF (AAH02662.1, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	328 amino acids
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 XI is likely a secreted protein, however, radical changes at active site residues completely conserved in CA isozymes with catalytic activity, make it unlikely that it has carbonic anhydrase activity. It shares properties in common with two other acatalytic CA isoforms, CA VIII and CA X. CA XI is most abundantly expressed in brain, and may play a general role in the central nervous system. [provided by RefSeq, Jul 2008]
Molecular Mass	61.71 kDa
AA Sequence	MGAAARLSAPRALVLWAALGAAAHIGPAPDPEDWWSYKDNLQGNFVPGPPFWGLV NAAWSLCAVGKRQSPVDVELKRVLYDPFLPPLRLSTGGEKLRGTLYNTGRHVSFLP

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APRPVVNVSGGPLLYSHRLSELRLFLGARDGAGSEHQINHQGFSAEVQLIHFNQELY
GNFSAASRGPNGLAILSLFVNVASTSNPFLSRLLNRDTITRISYKNDAYFLQDLSLELL
FPESFGFITYQGSLSLTPPCSETVTWILIDRALNITSLQMHSRLRLSQNPSPQIFQSLSG
NSRPLQPLAHRALRGNRDPRHPERRCRGPNYRLHVDGVPHGR

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CA11 carbonic anhydrase XI [Homo sapiens]
Official Symbol	CA11
Synonyms	CA11; carbonic anhydrase XI; carbonic anhydrase-related protein 11; CA RP XI; carbonic anhydrase related protein 2; carbonic anhydrase related protein XI; CARP2; CARPX1; CA-XI; CARP-2; CARP XI; CA-RP II; carbonic anhydrase-related protein 2; carbonic anhydrase-related protein XI;
Gene ID	770
mRNA Refseq	NM_001217

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Protein Refseq	NP_001208
MIM	604644
UniProt ID	O75493

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