

Recombinant Human CA11 Protein, GST-Tagged

Cat. No. CA11-0231H **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	Wheat Germ
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 NAAWSLCAVGKRQSPVDVELKRVLYDPFLPPLRLSTGGEKLRGTLTYNTGRHVSFLP APRPVNVNVS GGPLL YSHRLSELRL LFGARDGAGSEHQINHQGFSAEVQLIHFNQELY

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GNFSAASRGPNGLAILSLFVNVASTSNPFLSRLNDRDTITRISYKNDAYFLQDLSLELL
 FPESFGFITYQGSLSTPPCSETVTWILIDRALNITSLQMHSRLLSQNPPSQIFQSLSG
 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

Protein Refseq

NP_001208

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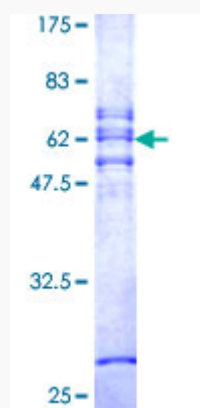
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MIM 604644

UniProt ID O75493

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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