

Recombinant Human CA8 Protein, GST-Tagged

Cat. No. CA8-0248H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA8 full-length ORF (NP_004047.3, 1 a.a. - 290 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>The protein encoded by this gene was initially named CA-related protein because of sequence similarity to other known carbonic anhydrase genes. However, the gene product lacks carbonic anhydrase activity (i.e., the reversible hydration of carbon dioxide). The gene product continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. The absence of CA8 gene transcription in the cerebellum of the lurcher mutant in mice with a neurologic defect suggests an important role for this acatalytic form. Mutations in this gene are associated with cerebellar ataxia, mental retardation, and dysequilibrium syndrome 3 (CMARQ3). Polymorphisms in this gene are associated with osteoporosis, and overexpression of this gene in osteosarcoma cells suggests an oncogenic role. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]</p>
Molecular Mass	59.4 kDa
AA Sequence	MADLSFIEDTVAFPEKEEDEEEEEEGVEWGYEEGVEWGLVFPDANGEYQSPINLNS REARYDPSLLDVRLSPNYVVCRDCEVTNDGHTIQVILKSKSVLGGPLPQGHEFELY

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EVRFHWGRENQRGSEHTVNFKAFPMELHLIHWNSTLFGSIDEAVGKPHGIAIALFV
 QIGKEHVGLKAVTEILQDIQYKKGSKTIPCFNPNTLLPDPLLRDYWVYEGSLTIPPCSE
 GVTWILFRYPLTISQLQIEEFRRLRTHVKGAELVEGCDGILGDNFRPTQPLSDRVIRA
 AFQ

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	CA8 carbonic anhydrase VIII [Homo sapiens]
Official Symbol	CA8
Synonyms	CA8; carbonic anhydrase VIII; CALS; carbonic anhydrase-related protein; CARP; CA-related protein; carbonate dehydratase; carbonic anhydrase-like sequence; CAMRQ3; CA-VIII; MGC99509; MGC120502;
Gene ID	767
mRNA Refseq	NM_004056
Protein Refseq	NP_004047

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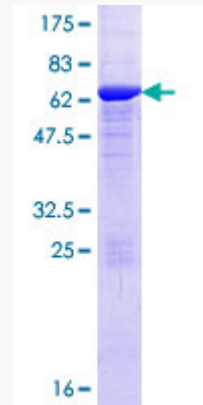
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MIM 114815

UniProt ID P35219

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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