

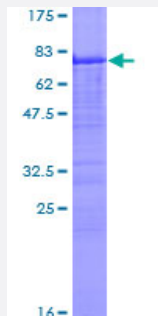
Full-Length

CA9 (Human) Recombinant Protein (P01)

Catalog # H00000768-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CA9 full-length ORF (NP_001207.1, 1 a.a. - 459 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAPLCPSWLPLLIPAPAGLTVQLLLSLLLMPVHPQRLPRMQEDSPLGGGSSGEDDPLGEED
LPSEEDSPREEDPPGEEDLPGEEDLPGEEDLPGEEDLPVKKPKSEEEGSLKLEDLPTVEAPGDPQEPQN
NAHRDKEGDDQSHWRYGGDPPWPRVSPACAGRFQSPVDIRPQLAAFCPALRPLELLGFQLPPL
PELRLRNNGHSVQLTLPGLEMALGPGREYRALQLHLHWGAAGRPGSEHTVEGHRFP AEIHVVH
LSTAFARVDEALGRPGGLAVLAALFEEGPEENSAYEQLLSRLEEIAEEGSETQVPGLDISALLPSD
FSRYFQYEGSLTPPCAQGVIVTVFNQTVMLSAKQLHTLSDTLWGPGDSRLQLNFRATQPLNGR
VIEASFPAGVDSSPRAAEPVQLNSCLAAGDILALVFGLLFAVTSVAFLVQMRRQHRRGTKGGVSY
RPAEVAETGA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.1

Interspecies Antigen Sequence

Mouse (69); Rat (71)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CA9

Entrez GeneID	768
GeneBank Accession#	NM_001216.1
Protein Accession#	NP_001207.1
Gene Name	CA9
Gene Alias	CAIX, MN
Gene Description	carbonic anhydrase IX
Omim ID	603179
Gene Ontology	Hyperlink

Gene Summary	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 the only tumor-associated carbonic anhydrase isoenzyme 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. [provided by RefSeq]
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Other Designations

OTTHUMP00000022773|RCC-associated protein G250|carbonic dehydratase

Pathway

- [Nitrogen metabolism](#)

Disease

- [Alzheimer disease](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Kidney Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroblastoma](#)