

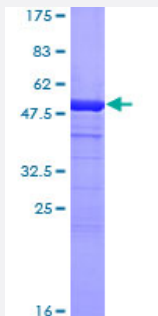
Full-Length

CA2 (Human) Recombinant Protein (P01)

Catalog # H00000760-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CA2 full-length ORF (NP_000058.1, 1 a.a. - 260 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDHTAKYDPSLKPLSVSYDQATSLRILNNGHAFNVEFDDSQDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDKKKYAAELHLVHWNTKYGDFGKAVQQPDGLAVLGIFLKVGSAKPGLQKVVDVLDSIKTKGKSADFTNFDPRGLLPESLDYWTYPGSLTTPPLLECVTWMLKEPISVSSEQVLKFRKLNFNNGEGEPEELMVDNWRPAQPLKNRQIKASFK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

55.6

Interspecies Antigen Sequence

Mouse (81); Rat (81)

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 — CA2

Entrez GeneID[760](#)**GeneBank Accession#**[NM_000067.1](#)**Protein Accession#**[NP_000058.1](#)**Gene Name**

CA2

Gene Alias

CA-II, CAII, Car2

Gene Description

carbonic anhydrase II

Omim ID[259730 611492](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

CA2 is one of several (at least 7) isozymes of carbonic anhydrase. Carbonic anhydrase catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. [provided by RefSeq]

Other Designations

carbonate dehydratase II|carbonic anhydrase B|carbonic dehydratase

Publication Reference

- [Mitochondrial-dependent Autoimmunity in Membranous Nephropathy of IgG4-related Disease.](#)

Buelli S, Perico L, Galbusera M, Abbate M, Morigi M, Novelli R, Gagliardini E, Tentori C, Rottoli D, Sabadini E, Saito T, Kawano M, Saeki T, Zoja C, Remuzzi G, Benigni A.

EBioMedicine 2015 Mar; 2(5):456.

Application: WB, Human, Serum

Pathway

- [Nitrogen metabolism](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Osteoporosis](#)