

Full-Length

CA5B (Human) Recombinant Protein (P01)

Catalog # H00011238-P01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human CA5B full-length ORF (AAH28142, 1 a.a 317 a.a.) recombinant protein with GST-tag at N-t erminal.
Sequence	MVVMNSLRVILQASPGKLLWRKFQIPRFMPARPCSLYTCTYKTRNRALHPLWESVDLVPGGDRQ SPINIRWRDSVYDPGLKPLTISYDPATCLHVWNNGYSFLVEFEDSTDKSVIKGGPLEHNYRLKQFH FHWGAIDAWGSEHTVDSKCFPAELHLVHWNAVRFENFEDAALEENGLAVIGVFLKLGKHHKELQ KLVDTLPSIKHKDALVEFGSFDPSCLMPTCPDYWTYSGSLTTPPLSESVTWIIKKQPVEVDHDQLE QFRTLLFTSEGEKEKRMVDNFRPLQPLMNRTVRSSFRHDYVLNVQAKPKPATSQATP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	60.61
Interspecies Antigen Sequence	Mouse (89); Rat (88)
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.



Product Information

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 — CA5B	
Entrez GenelD	11238
GeneBank Accession#	BC028142
Protein Accession#	AAH28142
Gene Name	CA5B
Gene Alias	CA-VB, MGC39962
Gene Description	carbonic anhydrase VB, mitochondrial
Omim ID	300230
Gene Ontology	<u>Hyperlink</u>
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 respir ation, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cer ebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA VB is localized in the mitochondria and shows the highest seque nce similarity to the other mitochondrial CA, CA VA. It has a wider tissue distribution than CA VA, which is restricted to the liver. The differences in tissue distribution suggest that the two mitochon drial carbonic anhydrases evolved to assume different physiologic roles. [provided by RefSeq
Other Designations	carbonic dehydratase



Pathway

Nitrogen metabolism