

Product datasheet for **TP307002L**

CA5B (NM_007220) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carbonic anhydrase VB, mitochondrial (CA5B), nuclear gene encoding mitochondrial protein, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207002 representing NM_007220 Red =Cloning site Green =Tags(s)
	<p>MVVMNSLRVILQASPGKLLWRKFQIPRFMPARPCSLYTCTYKTRNRALHPLWESVDLVPGGDRQSPINIR WRDSVYDPGLKPLTISYDPATCLHWVWNGYSFLVEFEDSTDKSVIKGGPLEHNYRLKQFHFHWGAIDAWG SEHTVDSKCFPAELHLVHWNAVRFENFEDAALREENGLAVIGVFLKLGKHHKELQKLVDTLPSIKHKDALV EFGSFDPSCLMPTCPDYWYSGSLTTPPLESEVTWIIKKQPVEVDHDQLEQFRTLLFTSEGEKEKRMVDN FRPLQPLMNRTVRSSFRHDYVLNVQAKPKPATSQATP</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	32.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_009151</u>
Locus ID:	11238



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UniProt ID: [Q9Y2D0](#), [A0A024RBW9](#)

RefSeq Size: 6032

Cytogenetics: Xp22.2

RefSeq ORF: 951

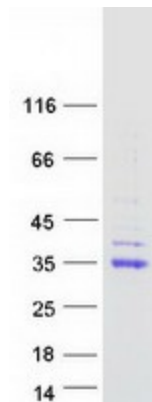
Synonyms: CA-VB; CAVB

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. This gene encodes carbonic anhydrase 5B. CA5B, and the related CA5A gene, has its expression localized in the mitochondria though CA5B has a wider tissue distribution than CA5A, which is restricted to the liver, kidneys, and skeletal muscle. A carbonic anhydrase pseudogene (CA5BP1) is adjacent to the CA5B gene and these two loci produce CA5BP1-CA5B readthrough transcripts. [provided by RefSeq, Jan 2019]

Protein Families: Druggable Genome

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA5B protein (Cat# [TP307002]). The protein was produced from HEK293T cells transfected with CA5B cDNA clone (Cat# [RC207002]) using MegaTran 2.0 (Cat# [TT210002]).