

Datasheet for ABIN7320479

CA4 Protein (AA 18-277) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	CA4
Protein Characteristics:	AA 18-277
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Carbonic Anhydrase 4/CA4 Protein (aa 18-277, His Tag)
Sequence:	Glu18-Ser277
Characteristics:	Recombinant Mouse Carbonic anhydrase 4 is produced by our Mammalian expression system and the target gene encoding Glu18-Ser277 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CA4
Alternative Name:	Carbonic Anhydrase 4/CA4 (CA4 Products)
Background:	Background: Carbonic anhydrase 4(CA4) is an enzyme that belongs to the alpha-carbonic

Target Details

anhydrase family. CA4 consists of a signal peptide (residues1-17), an ectodomain (residues18-277) and a propeptide (residues278-305), which is removed in the mature form. it is predominantly expressed in the embryo. CA4 can catalyzes the reversible reaction of $\text{CO}_2 + \text{H}_2\text{O} = \text{HCO}_3^- + \text{H}^+$, and stimulates the sodium/bicarbonate transporter activity of SLC4A4. Studies have shown that this protein have a role in inherited renal abnormalities of bicarbonate transport. Alpha-carbonic anhydrase family participate in avariety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor. They show extensive diversity in tissue is attribution and in their sub cellular localization.

Synonym: CA4,CAIV,CA-IV,Car4,Carbonate dehydratase IV,carbonic anhydrase 4,carbonic anhydrase IVRP17,carbonic dehydratase IV,EC4.2.1.1,retinitis pigmentosa 17,RP17

Molecular Weight:	30.5 kDa
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UniProt:	Q64444
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Application Details

Restrictions:	For Research Use only
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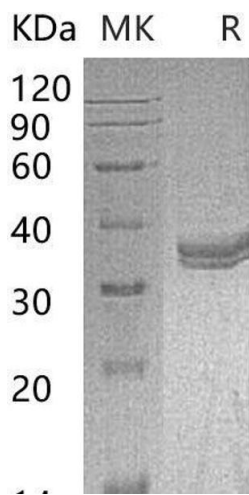
Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris,150 mM NaCl, pH 8.0.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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Western Blotting

Image 1.