

Datasheet for ABIN5854284  
**CA12 Protein (AA 25-301) (His tag)**



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1 Image

## Overview

Quantity:	50 µg
Target:	CA12
Protein Characteristics:	AA 25-301
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA12 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	APVNGSKWTY FGPDGENSWK KYPSCGGLL QSPIDLHSDI LQYDASLTPL EFQGYNLSAN KQFLLTNNGH SVKLNLPSPDM HIQGLQSRYS ATQLHLHWGN PNDPHGSEHT VSGQHFAAEL HIVHYNSDLY PDASTASNKS EGLAVLAVLI EMGSFNPSYD KIFSHLQHVK YKQGEAFVPG FNIEELLPER TAEYYRYRGS LTPPCNPTV LWTVFRNPVQ ISQEQLLALE TALYCTHMDD PSPREMINNF RQVQKFDERL VYTSFSQVQV CTAAGLSHHH HHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 300 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37C.

## Target Details

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Target:	CA12
Alternative Name:	CA12 ( <a href="#">CA12 Products</a> )
Background:	CA12, also known as Carbonic anhydrase 12, is an enzyme that in humans is encoded by the CA12 gene. 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. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10 % of clear cell renal carcinomas. Recombinant human CA12, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	31.94kDa (283aa) (28-40kDa in SDS-PAGE under reducing conditions.)
NCBI Accession:	<a href="#">NP_001209</a>
UniProt:	<a href="#">O43570</a>

## Application Details

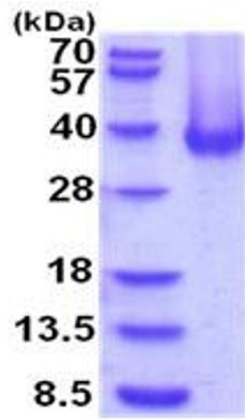
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Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In phosphate buffered saline ( pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

**SDS-PAGE**

Image 1.