

# Carbonic Anhydrase 3, human recombinant protein

CA3, Carbonic anhydrase 3
Catalog # PBV11392r

### **Specification**

## Carbonic Anhydrase 3, human recombinant protein - Product info

Primary Accession <u>P07451</u>

Calculated MW

This protein is fused with polyhistidine tag

at the C-terminus, and has a calculated MW of 30.4 kDa. The predicted N-terminus is Met 1. DTT-reduced Protein migrates as

28-30 kDa in SDS-PAGE. KDa

# Carbonic Anhydrase 3, human recombinant protein - Additional Info

Gene ID 761
Gene Symbol CA3

**Other Names** 

CA3, Carbonic anhydrase 3

Gene Source Human Source E.coli

Assay&Purity SDS-PAGE; ≥95%

Assay2&Purity2 N/A;
Recombinant Yes

Results The specific activity is >1 pmol/min/  $\mu$ g.

Target/Specificity
Carbonic Anhydrase 3

### **Application Notes**

Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

### **Format**

Lyophilized

#### Storage

-20°C; Lyophilized from 0.22  $\mu m$  filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

## Carbonic Anhydrase 3, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence



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- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Carbonic Anhydrase 3, human recombinant protein - Images

# Carbonic Anhydrase 3, human recombinant protein - Background

Carbonic anhydrase 3 (CA3) is also known as Carbonate dehydratase III, Carbonic anhydrase III, which belongs to the alpha-carbonic anhydrase family. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The catalytic activity of carbonic anhydrase 3 is activated by proton donors such as imidazole and the dipeptide histidylhistidine and is inhibited by coumarins and sulfonamide derivatives such as acetazolamide.

## Carbonic Anhydrase 3, human recombinant protein - References

Lloyd J., et al. Gene 41:233-239(1986). Wade R., et al. Proc. Natl. Acad. Sci. U.S.A. 83:9571-9575(1986). Ota T., et al. Nat. Genet. 36:40-45(2004). Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Lloyd J., et al. Genes Dev. 1:594-602(1987).