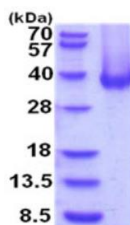


Active Recombinant Human CAXII

02/21

CATALOG NO:	P1704-20 20 µg P1704-50 50 µg
ALTERNATE NAMES:	Carbonic anhydrase 12 isoform 1, CAXII, HsT18816, CA12, FLJ20151, Carbonate dehydratase XII, carbonic anhydrase XII, CA-XII, Tumor antigen HOM-RCC-3.1.3
MOL. WT.	31.94 kDa
NCBI GENE ID:	771
ACCESSION NO.:	O43570
PURITY:	≥ 90% by SDS-PAGE
SOURCE:	Baculovirus
ENDOTOXIN:	< 1 EU per 1 µg of protein as determined by LAL method
TAG:	His tag
AMINO ACID SEQUENCE:	The target is expressed with the sequence (aa 25-301) of Human CAXII with a His-tag at the C-terminus.
FORM:	Liquid
FORMULATION:	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
SPECIFIC ACTIVITY:	Specific activity is > 300 pmol/min/µg, and is defined as the amount of enzyme that hydrolyzes 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37 °C.
STORAGE CONDITIONS:	Divide into small aliquots and store at -20 °C to -80 °C. Avoid repeated freeze-thaw cycles.

DESCRIPTION: 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.



3 µg of human recombinant CAXII protein was loaded on SDS-PAGE under reducing conditions and visualized by Coomassie blue stain.

RELATED PRODUCTS:

Carbonic Anhydrase (CA) Inhibitor Screening Kit (Colorimetric) (Cat. No. K473)
 Human CellExp™ Carbonic Anhydrase 10/CA10, human recombinant (Cat. No. 7485)
 Human CellExp™ Carbonic Anhydrase 9/CA9, human recombinant (Cat. No. 7478)
 Anti-CA12 Antibody (Cat. No. A1865)
 Carbonic Anhydrase (CA) Activity Assay Kit (Colorimetric) (Cat. No. K472)

FOR RESEARCH USE ONLY! Not to be used on humans.