

## Product Information

### **MemDX™ Membrane Protein Human CA12 (Carbonic anhydrase 12) Expressed in Yeast with 6xHis tag at the N-terminus for Antibody Discovery, Partial (25-301aa)**

Cat. No.: **MPX4221K**

This product is for research use only and is not intended for diagnostic use.

This product is a 33.1kDa Human CA12 membrane protein expressed in Yeast. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

CA12

##### Protein Length

Partial (25-301aa)

##### Protein Class

Receptor

##### Molecular Weight

33.1kDa

##### TMD

1

##### Sequence

APVNGSKWTFGPDGENSWSKKYPSCGGLLQSPIDLHSDILQYDASLTPLFQGGYNLSANKQFLLTNNGHSVKLNLPSDMHIQGLG

#### Product Description

##### Expression Systems

Yeast

##### Tag

6xHis tag at the N-terminus

##### Protein Format

Soluble

##### Form

Liquid or Lyophilized powder

**Purity**

>90% as determined by SDS-PAGE

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

CA12

**Full Name**

Carbonic anhydrase 12

**Introduction**

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. Three transcript variants encoding different isoforms have been identified for this gene.

**Alternative Names**

CA12; CAXII; CA-XII; T18816; HsT18816; carbonate dehydratase XII; carbonic anhydrase XII; carbonic dehydratase; tumor antigen HOM-RCC-3.1.3; Carbonic anhydrase 12

**Gene ID**

[771](#)

**UniProt ID**

[O43570](#)