Recombinant Human CA9 Protein (His Tag)

RPES8295

Product Information

Product SKU:	RPES8295	**Expression Host**:	Mammalian	**Size**:	20µg
Tag:	C-His	**Reactivity**:	Human	**Accession**:	Q16790

Additional Information

Calculated MW:	41.3 kDa	**Observed MW:**	45-50 kDa
Sequence:	Gln38-Asp414		

Protein Information

Background: 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. They show extensive diversity in tissue distribution and in their subcellular localization. CA IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12.

Synonyms: CA-IX, CA9, CAH9, CAIX, Carbonate dehydratase IX, Carbonic anhydrase 9, Carbonic anhydrase IX, Carbonic dehydratase, G250, Membrane antigen MN, MN, P54/58N, pMW1, RCC associated protein G250, RCC-associated antigen G250, Renal cell carcinoma-associated antigen G250

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Contact Details | Dublin, Ireland
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Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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