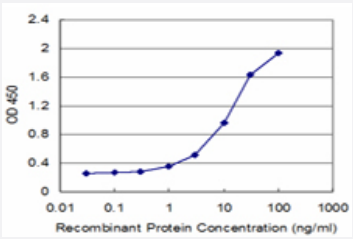
CA1 monoclonal antibody (M21), clone 2C5

Catalog # H00000759-M21 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CA1 is approximately 1ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant CA1.
Immunogen	CA1 (AAH27890, 1 a.a. ~ 261 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHS FHVNFEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYSAELHVAHWNSAKY SSLAEAASKADGLAVIGVLMKVGEANPKLQKVLDALQAIKTKGKRAPFTNFDPSTLLPSSLDFWT YPGSLTHPPLYESVTWIICKESISVSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRAS F
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (78); Rat (81)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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  Protocol Download

- ELISA

Gene Info — CA1

Entrez GeneID	759
GeneBank Accession#	BC027890
Protein Accession#	AAH27890
Gene Name	CA1
Gene Alias	Car1
Gene Description	carbonic anhydrase I
Omim ID	114800
Gene Ontology	Hyperlink
Gene Summary	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 respir ation, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cer ebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this ge ne have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA_sites hav e been described in literature. [provided by RefSeq
Other Designations	carbonic dehydratase

Pathway

- Nitrogen metabolism

Disease

- Diabetic Retinopathy