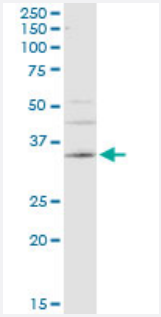
CA4 monoclonal antibody (M08), clone 4G6

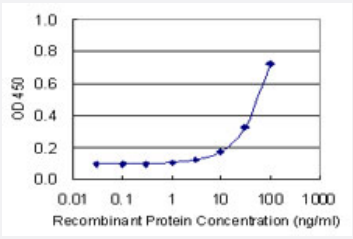
Catalog # H00000762-M08 Size 100 ug

Applications



Western Blot (Cell lysate)

CA4 monoclonal antibody (M08), clone 4G6. Western Blot analysis of CA4 expression in A-431.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CA4 is 3 ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CA4.
Immunogen	CA4 (NP_000708.1, 27 a.a. ~ 126 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRFFFSGYDKKQTWTVQNNGHSV MMLLENKASISGGGLPAPYQAKQLHLHWSDLPYKGS
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (51); Rat (52)
Isotype	IgG2a 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

- Western Blot (Cell lysate)

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  Protocol Download

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- ELISA

Gene Info — CA4

Entrez GeneID	762
GeneBank Accession#	NM_000717
Protein Accession#	NP_000708.1
Gene Name	CA4
Gene Alias	CAIV, Car4, RP17
Gene Description	carbonic anhydrase IV
Omim ID	114760 600852
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. This gene encodes a glycosylphosphatidyl-inositol-anchored membr ane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and pr oximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport. [provided by RefSeq
Other Designations	carbonic dehydratase|retinitis pigmentosa 17 (autosomal dominant)

Pathway

- Nitrogen metabolism

Disease

- Retinal Diseases