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CA7 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant CA7.
Catalog # AT1358a

Product Information

Application	WB
Primary Accession	P43166
Other Accession	NM_005182
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3B7
Calculated MW	29658

Additional Information

Gene ID	766
Other Names	Carbonic anhydrase 7, Carbonate dehydratase VII, Carbonic anhydrase VII, CA-VII, CA7
Target/Specificity	CA7 (NP_005173, 34 a.a. ~ 125 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CA7 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

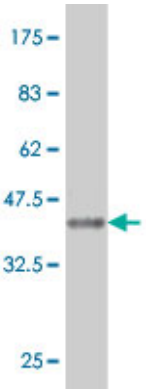
Background

Carbonic anhydrases 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. The cytosolic protein encoded by this gene is predominantly expressed in the salivary glands. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms.

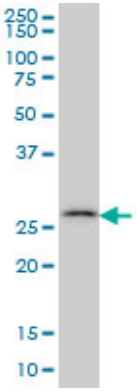
References

Carbonic anhydrase inhibitors. Inhibition of the human cytosolic isozyme VII with aromatic and heterocyclic sulfonamides. Vullo D, et al. Bioorg Med Chem Lett, 2005 Feb 15. PMID 15686895.Two developmental switches in GABAergic signalling: the K+-Cl- cotransporter KCC2 and carbonic anhydrase CAVII. Rivera C, et al. J Physiol, 2005 Jan 1. PMID 15528236.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.A missense mutation (R565W) in cirhin (FLJ14728) in North American Indian childhood cirrhosis. Chagnon P, et al. Am J Hum Genet, 2002 Dec. PMID 12417987.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.12 KDa) .



CA7 monoclonal antibody (M06), clone 3B7 Western Blot analysis of CA7 expression in Hela S3 NE ((Cat # AT1358a)