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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

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|---|---|
| **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. |

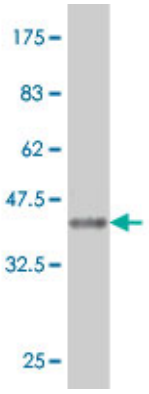
## Background

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.

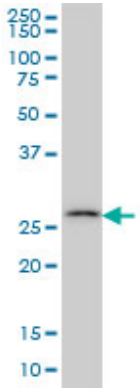
## References

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 )

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.