

**CMAS Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant CMAS.****Catalog # AT1566a****Specification**

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**CMAS Antibody (monoclonal) (M01) - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IHC, IF, E            |
| Primary Accession | <a href="#">Q8NFW8</a>    |
| Other Accession   | <a href="#">NM_018686</a> |
| Reactivity        | Human, Mouse, Rat         |
| Host              | mouse                     |
| Clonality         | Monoclonal                |
| Isotype           | IgG2a Kappa               |
| Calculated MW     | 48379                     |

**CMAS Antibody (monoclonal) (M01) - Additional Information****Gene ID** 55907**Other Names**

N-acylneuraminate cytidyltransferase, CMP-N-acetylneuraminic acid synthase, CMP-NeuNAc synthase, CMAS

**Target/Specificity**

CMAS (NP\_061156, 164 a.a. ~ 263 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

**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**

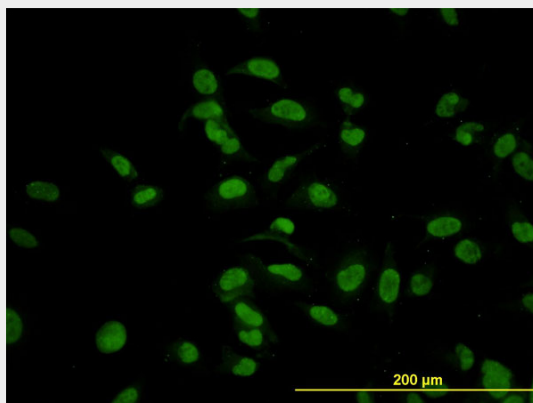
CMAS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

**CMAS Antibody (monoclonal) (M01) - Protocols**

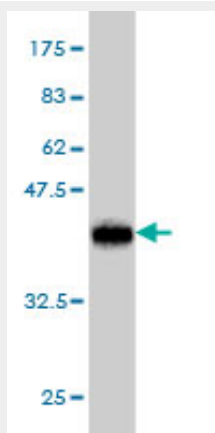
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

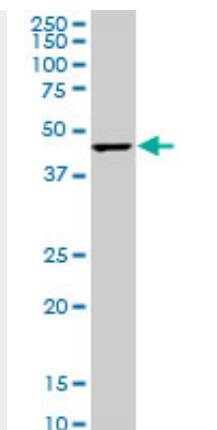
#### CMAS Antibody (monoclonal) (M01) - Images



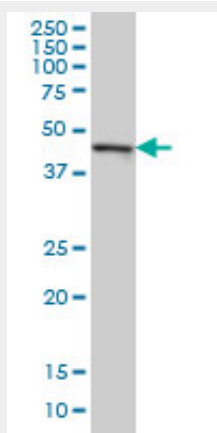
Immunofluorescence of monoclonal antibody to CMAS on HeLa cell. [antibody concentration 10 ug/ml]



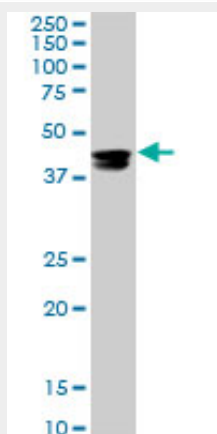
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



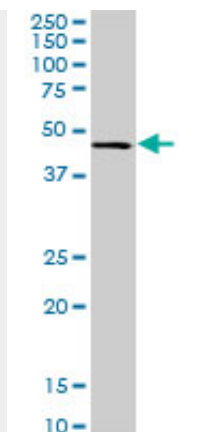
CMAS monoclonal antibody (M01), clone 5A2. Western Blot analysis of CMAS expression in PC-12 (Cat # AT1566a)



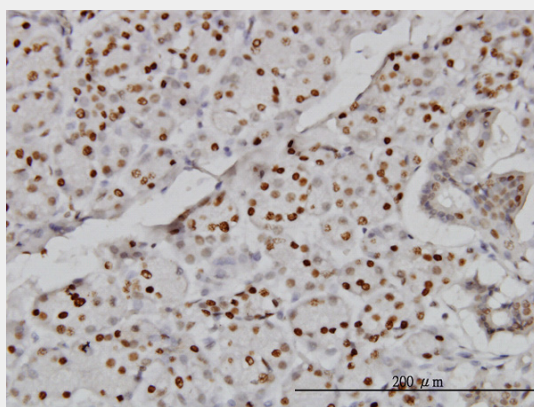
CMAS monoclonal antibody (M01), clone 5A2 Western Blot analysis of CMAS expression in HeLa S3 NE (Cat # AT1566a)



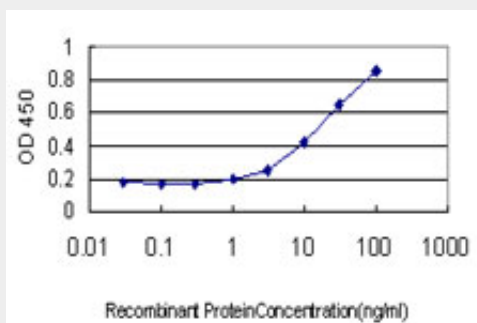
CMAS monoclonal antibody (M01), clone 5A2. Western Blot analysis of CMAS expression in Raw 264.7 (Cat # AT1566a)



CMAS monoclonal antibody (M01), clone 5A2. Western Blot analysis of CMAS expression in NIH/3T3 (Cat # AT1566a)



Immunoperoxidase of monoclonal antibody to CMAS on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 3 ug/ml]



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

### CMAS Antibody (monoclonal) (M01) - Background

The enzyme encoded by this gene catalyzes the activation of Neu5Ac to Cytidine 5-prime-monophosphate N-acetylneuraminic acid (CMP-Neu5Ac), which provides the substrate required for the addition of sialic acid. Sialic acids of cell surface glycoproteins and glycolipids play a pivotal role in the structure and function of animal tissues. The pattern of cell surface sialylation is highly regulated during embryonic development, and changes with stages of differentiation. Studies of a similar murine protein suggest that this protein localizes to the nucleus.

### CMAS Antibody (monoclonal) (M01) - References

A C-terminal phosphatase module conserved in vertebrate CMP-sialic acid synthetases provides a

tetramerization interface for the physiologically active enzyme. Oschlies M, et al. J Mol Biol, 2009 Oct 16. PMID 19666032. 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. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039. 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. NotI flanking sequences: a tool for gene discovery and verification of the human genome. Kutsenko AS, et al. Nucleic Acids Res, 2002 Jul 15. PMID 12136098.