

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

Application	WB, IHC, IF, E
Primary Accession	Q8NFW8
Other Accession	NM_018686
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 cytidylyltransferase, CMP-N-acetylneuraminc 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.

DilutionWB~~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.

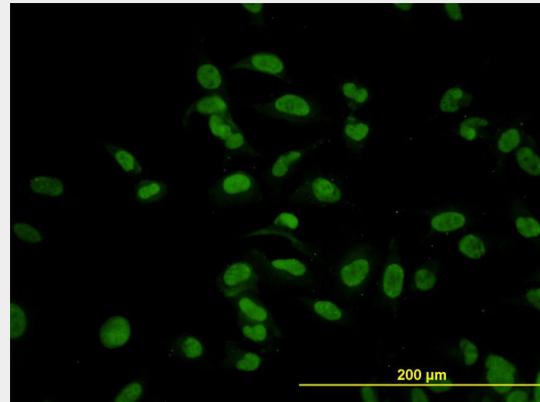
Precautions

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

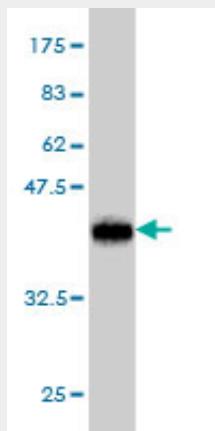
CMAS Antibody (monoclonal) (M01) - Protocols

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

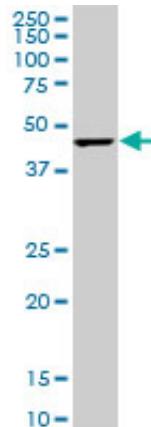
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CMAS Antibody (monoclonal) (M01) - Images

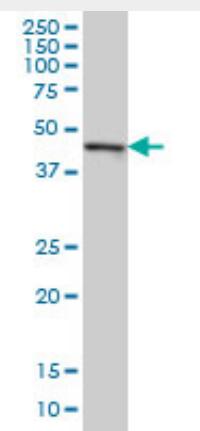
Immunofluorescence of monoclonal antibody to CMAS on HeLa cell. [antibody concentration 10 ug/ml]



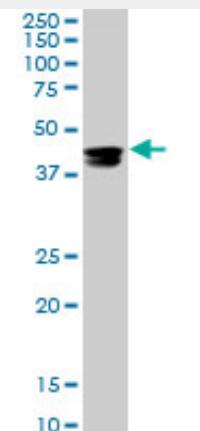
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



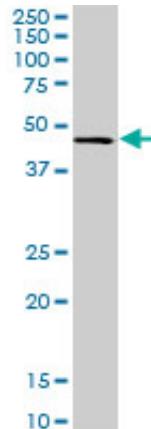
CMAS monoclonal antibody (M01), clone 5A2. Western Blot analysis of CMAS expression in PC-12 (Cat # AT1566a)



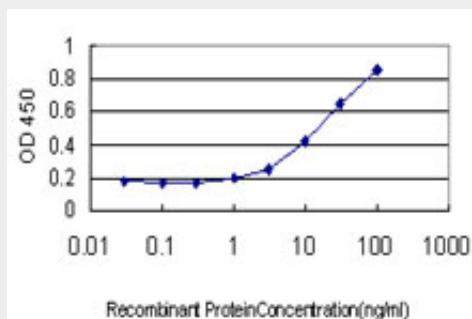
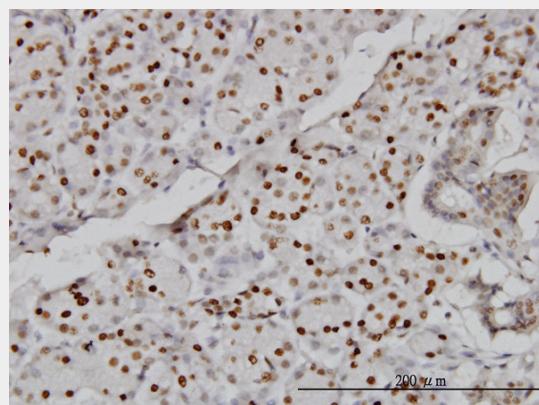
CMAS monoclonal antibody (M01), clone 5A2 Western Blot analysis of CMAS expression in Hela S3 NE (Cat # AT1566a)



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)



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-acetylneuraminc 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.