

# CASD1 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP8857a

## Specification

## CASD1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

<u>Q96PB1</u>

## CASD1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 64921

Other Names CAS1 domain-containing protein 1, CASD1, C7orf12

Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/products/AP8857a>AP8857a</a> was selected from the N-term region of human CASD1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## CASD1 Antibody (N-term) Blocking Peptide - Protein Information

Name CASD1 (<u>HGNC:16014</u>)

#### Synonyms C7orf12

Function

Key enzyme in the biosynthesis of O-acetylated (O-Ac) sialoglycans such as gangliosides O-AcGD3 and O-AcGD2, which affect various processes such as cell-cell interactions, host-pathogen recognition (PubMed:<a href="http://www.uniprot.org/citations/20947662" target="\_blank">20947662</a>, PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>, PubMed:<a href="http://www.uniprot.org/citations/34208013" target="\_blank">34208013</a>). Catalyzes the transfer of an acetyl group from a donor, the acetyl- coenzyme-A molecule (acetyl-CoA), to the C7/8/9 OH-position of a sialic acid residue (PubMed:<a href="http://www.uniprot.org/citations/20947662" target="\_blank">20947662</a>, PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">20947662</a>, PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">20947662</a>, PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">20947662</a>, PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">20947662</a>,



C7, from which the O-acetyl group could subsequently migrate to the C8 and then to the C9 position, or at C9 with possibility of migrating to the C8 and then to the C7 position (PubMed:<a href="http://www.uniprot.org/citations/20947662" target="\_blank">20947662</a>, PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>). Together with ST8SIA1 (GD3 synthase) it increases the levels of ganglioside Ac-O-7-GD3 (PubMed:<a href="http://www.uniprot.org/citations/20947662" target="\_blank">20947662</a>). Can transfer the acetyl group from acetyl-CoA to free sialate (N-acetylneuraminate, Neu5Ac) in vitro, but has preferred substrate specificity for CMP- activated sialate (CMP-Neu5Ac), resulting in the formation of 9-O- acetylated CMP-Neu5Ac (CMP-Neu5,9Ac2) (PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>). CMP-Neu5,9Ac2 may be used by sialyltransferases as a sialate donor for glycoconjugate acceptors such as ganglioside GD3 (PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>). CMP-Neu5,9Ac2 may be used by sialyltransferases as a sialate donor for glycoconjugate acceptors such as ganglioside GD3 (PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>). Coacetylated CMP-Neu5,9Ac2 may be used by sialyltransferases as a sialate donor for glycoconjugate acceptors such as ganglioside GD3 (PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>). Can counteract the pro-apoptotic effects of the ganglioside GD3 in tumor cells (PubMed:<a href="http://www.uniprot.org/citations/26169044" target="\_blank">26169044</a>).

## **Cellular Location**

Golgi apparatus membrane; Multi-pass membrane protein

## **Tissue Location**

Highly expressed in peripheral B lymphocytes.

## CASD1 Antibody (N-term) Blocking Peptide - Protocols

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

Blocking Peptides

CASD1 Antibody (N-term) Blocking Peptide - Images

#### CASD1 Antibody (N-term) Blocking Peptide - References

Janbon, G., et.al., Mol. Microbiol. 42 (2), 453-467 (2001)