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CASD1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8857a

Specification

CASD1 Antibody (N-term) - Product Information

Application	**FC, WB,E**
Primary Accession	Q96PB1
Other Accession	Q7TN73
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**97-126**

CASD1 Antibody (N-term) - Additional Information

Gene ID 64921

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

Target/Specificity
This CASD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 97-126 amino acids from the N-terminal region of human CASD1.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CASD1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CASD1 Antibody (N-term) - Protein Information

Name CASD1 (HGNC:16014)

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:20947662, PubMed:26169044, PubMed:34208013). 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:20947662, PubMed:26169044). The primary site of O- acetyl group transfer on sialic acid seems to depend on cell type and can be 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:20947662, PubMed:26169044). Together with ST8SIA1 (GD3 synthase) it increases the levels of ganglioside Ac-O-7-GD3 (PubMed:20947662). 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:26169044). CMP-Neu5,9Ac2 may be used by sialyltransferases as a sialate donor for glycoconjugate acceptors such as ganglioside GD3 (PubMed:26169044). O-acetylation at position C9 of ganglioside GD3 can counteract the pro-apoptotic effects of the ganglioside GD3 in tumor cells (PubMed:12486096).

Cellular Location
Golgi apparatus membrane; Multi-pass membrane protein

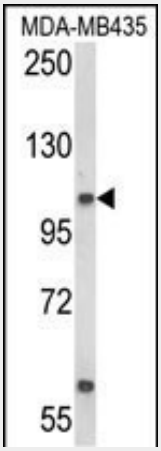
Tissue Location
Highly expressed in peripheral B lymphocytes.

CASD1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CASD1 Antibody (N-term) - Images



Western blot analysis of CASD1 Antibody (N-term) (Cat. #AP8857a) in MDA-MB435 cell line lysates (35ug/lane). CASD1 (arrow) was detected using the purified Pab.

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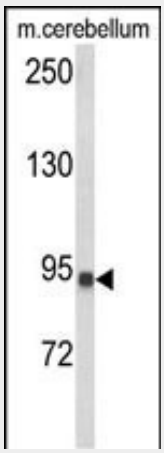
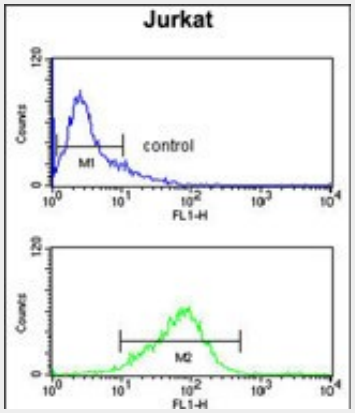


Western blot analysis of CASD1 Antibody (N-term) (Cat. #AP8857a) in mouse cerebellum tissue lysates (35ug/lane). CASD1 (arrow) was detected using the purified Pab.



CASD1 Antibody (N-term) (Cat. #AP8857a) flow cytometry analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CASD1 Antibody (N-term) - References

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