

For Research Use Only

CMAS Polyclonal antibody

Catalog Number: 13006-1-AP



Basic Information

Catalog Number: 13006-1-AP	GenBank Accession Number: BC016609	Purification Method: Antigen affinity purification
Concentration: 450 ug/ml	GeneID (NCBI): 55907	Recommended Dilutions: WB: 1:1000-1:8000
Source: Rabbit	UNIPROT ID: Q8NFW8	IHC: 1:400-1:1600
Isotype: IgG	Full Name: cytidine monophosphate N-acetylneuraminic acid synthetase	IF/ICC: 1:200-1:800
Immunogen Catalog Number: AG3686	Calculated MW: 48 kDa	
	Observed MW: 48 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB: rat pancreas tissue, mouse brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC: human placenta tissue,
	IF/ICC: A431 cells,

Background Information

Cytidine monophosphate N-acetylneuraminic acid synthetase (CMAS), a key enzyme in the incorporation pathway, catalyzes the synthesis of CMP-sialic acid by utilizing CTP and sialic acid. Neu5Ac is activated in the nucleus by CMAS to form CMP-Neu5Ac, which is transported to the Golgi apparatus by SLC35A1 for sialylation of glycoproteins and gangliosides catalyzed by specific sialyl transferases (PMID: 30568043). Low CMAS gene expression correlated with reduced recurrence-free survival in a human colorectal cancer cohort (PMID: 30578646). Western blots indicated a range of bands at ~ 48 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

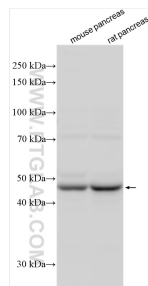
T: 4006900926

E: Proteintech-CN@ptglab.com

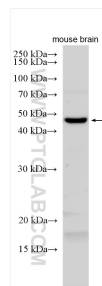
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

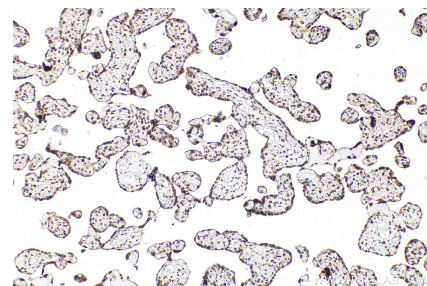
Selected Validation Data



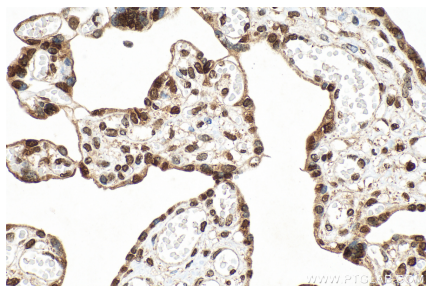
Various lysates were subjected to SDS PAGE followed by western blot with 13006-1-AP (CMAS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



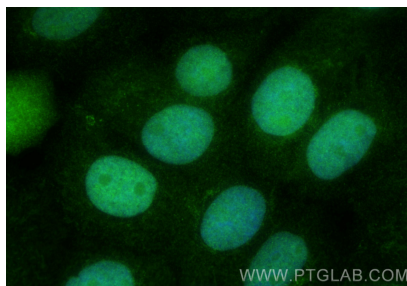
Various lysates were subjected to SDS PAGE followed by western blot with 13006-1-AP (CMAS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 13006-1-AP (CMAS antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 13006-1-AP (CMAS antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CMAS antibody (13006-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).