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SIAE Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56709

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9HAT2
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58315
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SIAE
Epitope Specificity	321-420/523
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Lysosome
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Sialic acids are acidic 9-carbon sugars typically found at the non-reducing end of sugar chains. They are frequently modified by 9-O-acetylation and this modification is removed by sialic acid acetylesterases. SIAE catalyzes the removal of O-acetyl ester groups from position 9 of the parent sialic acid, N-acetylneuraminic acid. SIAE appears to encode both lysosomal and cytosolic sialic acid acetylesterase isoforms (LSE and CSE, respectively). It is widely expressed with high expression in the testis, prostate, and colon. There are three named isoforms.

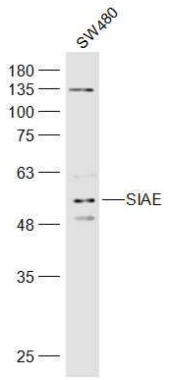
Additional Information

Gene ID	54414
Other Names	Sialate O-acetylesterase, 3.1.1.53, H-Lse, Sialic acid-specific 9-O-acetylesterase, SIAE, YSG2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

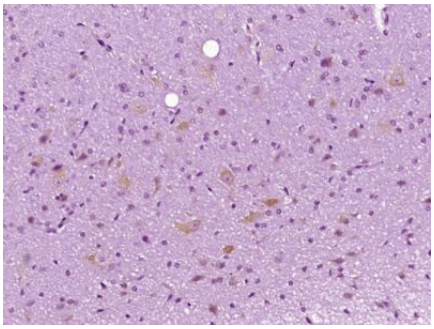
Protein Information

Name	SIAE
Synonyms	YSG2
Function	Catalyzes the removal of O-acetyl ester groups from position 9 of the free diacetylated sialate N-acetyl-9-O-acetylneuraminate (Neu5,9Ac2) in the cytosol and of the diacetylated sialate residues of sialylglycoconjugates in the lysosomes (Probable). Together with the sialate-O-acetyltransferase they regulate the balance of acetylated sialoglycoconjugates, key players in various processes such as cell- cell interactions, host-pathogen recognition, and tumor antigenicity (PubMed:21803834).
Cellular Location	[Isoform 1]: Lysosome
Tissue Location	Widely expressed with high expression in the testis, prostate, and colon.

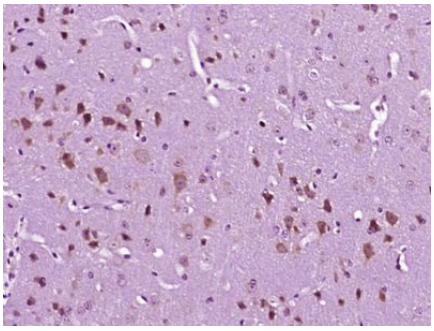
Images



Sample:
SW480(Human) Cell Lysate at 40 ug
Primary: Anti-SIAE(AP56709) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 56 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SIAE) Polyclonal Antibody, Unconjugated (AP56709) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SIAE) Polyclonal Antibody, Unconjugated (AP56709) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.