

# SIAE Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56709

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9HAT2</a>
<b>Reactivity</b>	Rat, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	58315
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human SIAE
<b>Epitope Specificity</b>	321-420/523
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Lysosome
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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 acetyl esterases. 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 acetyl esterase 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

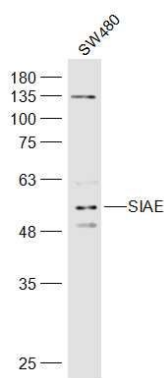
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<b>Gene ID</b>	54414
<b>Other Names</b>	Sialate O-acetyl esterase, 3.1.1.53, H-Lse, Sialic acid-specific 9-O-acetyl esterase, SIAE, YSG2
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	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.

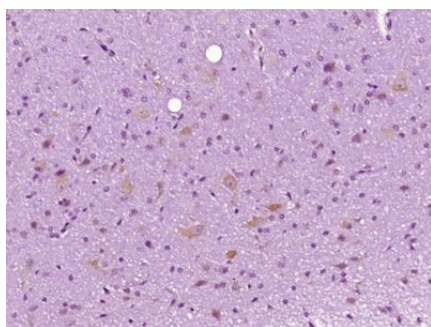
## Protein Information

<b>Name</b>	SIAE
<b>Synonyms</b>	YSG2
<b>Function</b>	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 sialoglycoconjugates 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: <a href="#">21803834</a> ).
<b>Cellular Location</b>	[Isoform 1]: Lysosome
<b>Tissue Location</b>	Widely expressed with high expression in the testis, prostate, and colon.

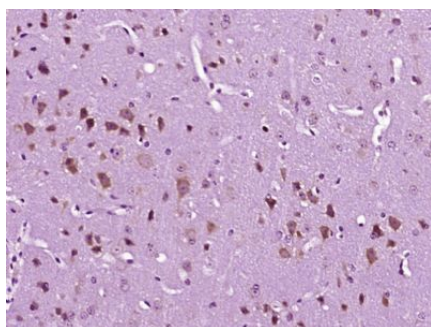
## Images



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) instructions and 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) instructions and DAB staining.