

SIAE Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56709

Specification

SIAE Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession O9HAT2

Reactivity Rat, Dog, Bovine Host Rabbit Clonality **Polyclonal 56 KDa**

Calculated MW Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human SIAE

321-420/523 **Epitope Specificity**

Isotype **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.

SIAE Polyclonal Antibody - 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~~1:1000<br \><span class</pre>

="dilution IHC-P">IHC-P~~N/A<br \><span class

="dilution IHC-F">IHC-F~~N/A<br \><span class

="dilution_IF">IF \sim 1:50 \sim 200<br\>ICC \sim N/A<br \>E~~N/A

Storage



Store at -20 $^{\circ}$ 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 $^{\circ}$ C.

SIAE Polyclonal Antibody - 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.

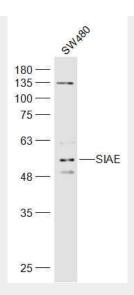
SIAE Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

SIAE Polyclonal Antibody - Images





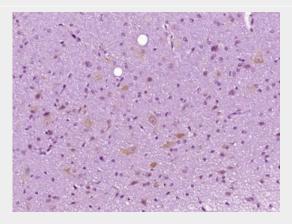
Sample:

SW480(Human) Cell Lysate at 40 ug

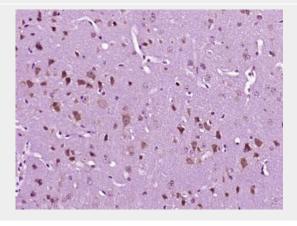
Primary: Anti-SIAE(bs-17480R) at 1/300 dilution

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 (bs-17480R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.







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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 (bs-17480R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.