



[Go to Product page](#)

Datasheet for ABIN4886703
anti-PSAT1 antibody (AA 276-370)

4 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | PSAT1 |
| Binding Specificity: | AA 276-370 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

| | |
|-----------------------------|--|
| Purpose: | Rabbit IgG polyclonal antibody for Phosphoserine aminotransferase(PSAT1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. |
| Immunogen: | E. coli-derived human PSAT1 recombinant protein (Position: Q276-L370). Human PSAT1 shares 90.5% amino acid (aa) sequence identity with mouse PSAT1. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross reactivity with other proteins. |
| Characteristics: | Rabbit IgG polyclonal antibody for Phosphoserine aminotransferase(PSAT1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: phosphoserine aminotransferase 1 Protein Name: Phosphoserine aminotransferase |
| Purification: | Immunogen affinity purified. |

Target Details

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|-------------------|---|
| Target: | PSAT1 |
| Alternative Name: | PSAT1 (PSAT1 Products) |
| Background: | <p>Phosphoserine aminotransferase (PSA), also known as phosphohydroxythreonine aminotransferase (PSAT), is an enzyme that in humans is encoded by the PSAT1 gene. This gene encodes a member of the class-V pyridoxal-phosphate-dependent aminotransferase family. The encoded protein is a phosphoserine aminotransferase and decreased expression may be associated with schizophrenia. Mutations in this gene are also associated with phosphoserine aminotransferase deficiency. Alternative splicing results in multiple transcript variants.</p> <p>Synonyms: EPIP MGC1460 NLS2 PSA PSAT Psat1 PSATD Q9Y617</p> |
| Gene ID: | 29968 |
| UniProt: | Q9Y617 |
| Pathways: | Warburg Effect |

Application Details

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|--------------------|---|
| Application Notes: | <p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p> |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

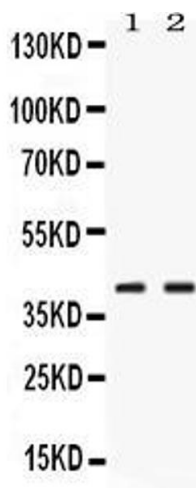
Handling

| | |
|-----------------|---|
| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide. |

Handling

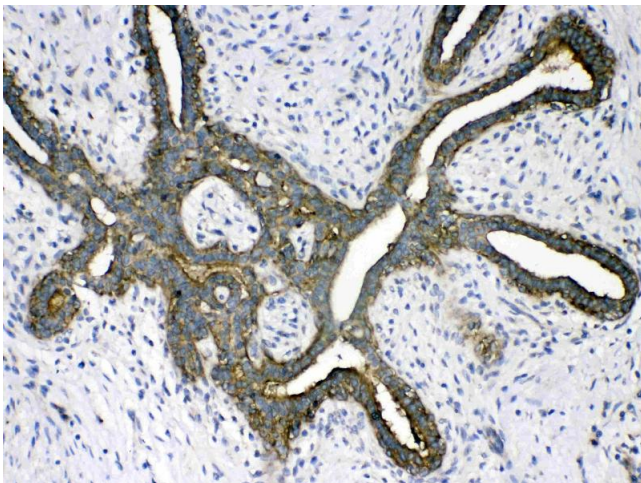
| | |
|--------------------|---|
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |

Images



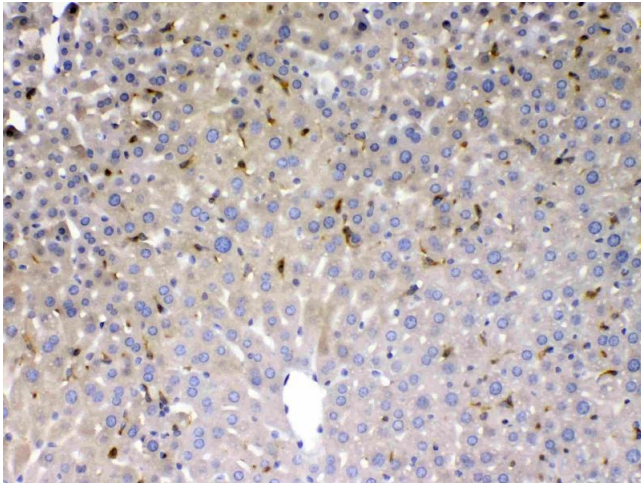
Western Blotting

Image 1. Western blot analysis of PSAT1 expression in rat pancreas extract (Lane 1) and HELA whole cell lysates (Lane 2). PSAT1 at 40KD was detected using rabbit anti-PSAT1 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



Immunohistochemistry

Image 2. PSAT1 was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- PSAT1 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 3. PSAT1 was detected in paraffin-embedded sections of mouse liver tissues using rabbit anti- PSAT1 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 ??g/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN4886703.