Datasheet for ABIN7602752

# anti-PPCS antibody (C-Term)

Go to Product page

## Overview

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| Quantity: | 100 µg |
| Target: | PPCS |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This PPCS antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-PPCS Antibody Picoband® (monoclonal, 7G13) |
| Immunogen: | A synthetic peptide corresponding to a sequence at the C-terminus of human PPCS, which shares 73.9% and 78.2% amino acid (aa) sequence identity with mouse and rat PPCS, respectively. |
| Clone: | 7G13 |
| Isotype: | IgG2a |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-PPCS Antibody Picoband® (monoclonal, 7G13) (ABIN7602752). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing |

## Product Details

antibodies are designated as Picoband, ensuring unmatched performance.

## Target Details

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| Target: | PPCS |
| Alternative Name: | PPCS (PPCS Products) |
| Background: | Synonyms: Phosphopantothenate--cysteine ligase, Phosphopantothenoylcysteine synthetase, PPC synthetase<br>Background: Phosphopantothenoylcysteine synthetase in humans is encoded by the PPCS gene. Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCS, one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylcysteine. By genomic sequence analysis, this PPCS gene ia mapped to chromosome 1. |
| Molecular Weight: | 34 kDa |
| Gene ID: | 79717 |
| Pathways: | Ribonucleoside Biosynthetic Process |

## Application Details

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| Application Notes: | Western blot, 0.1-0.5 µg/mL, Human<br>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human<br>1. Daugherty, M., Polanuyer, B., Farrell, M., Scholle, M., Lykidis, A., de Crecy-Lagard, V., Osterman, A. Complete reconstitution of the human coenzyme A biosynthetic pathway via comparative genomics. J. Biol. Chem. 277: 21431-21439, 2002. 2. McHugh T, Laforce R, Gallagher P, Quinn S, Diggle P, Buchanan L (2006). "Natural history of the long-term cognitive, affective, and physical sequelae of a minor traumatic brain injury". Brain and Cognition. 60 (2): 209-11. 3. Bigler ED (2008). "Neuropsychology and clinical neuroscience of persistent post-concussive syndrome". Journal of the International Neuropsychological Society. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |

## Handling

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| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg $Na_2HPO_4$, 0.05 mg $NaN_3$. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |