



SHMT (PT1858R) Rabbit pAb

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| Catalog No | YP-rAb-18521 |
| Isotype | IgG,Kappa |
| Reactivity | Human,Mouse |
| Applications | WB;IHC;IF;ELISA |
| Gene Name | SHMT2 |
| Protein Name | GLYM |
| Immunogen | |
| Specificity | Endogenous |
| Formulation | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |
| Source | Monoclonal, Rabbit,IgG |
| Purification | Protein A |
| Dilution | IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 |
| Concentration | 0.5 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | |
| Observed Band | 43kD |
| Calculated Molecular Weight | 46kD |
| Cell Pathway | Mitochondrion . Mitochondrion matrix, mitochondrion nucleoid . Mitochondrion inner membrane . Cytoplasm . Nucleus . Mainly localizes in the mitochondrion. Also found in the cytoplasm and nucleus as part of the BRISC complex |
| Tissue Specificity | |
| Function | Catalytic activity:5,10-methylenetetrahydrofolate + glycine + H(2)O = tetrahydrofolate + L-serine.,cofactor:Pyridoxal phosphate.,Function:Interconversion of serine and glycine.,miscellaneous:In eukaryotes there are two forms of the enzymes: a cytosolic one and a mitochondrial one.,pathway:One-carbon metabolism; tetrahydrofolate pathway.,similarity:Belongs to the SHMT family.,subunit:Homotetramer., |
| Background | This gene encodes the mitochondrial form of a pyridoxal phosphate-dependent enzyme that catalyzes the reversible reaction of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. The encoded product is primarily responsible for glycine synthesis. The activity of the encoded protein has been suggested to be the primary source of intracellular glycine. The gene which encodes the cytosolic form of this enzyme is located on chromosome 17. |



Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images