

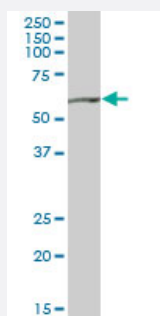
MaxPab®

SHMT2 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00006472-B01P

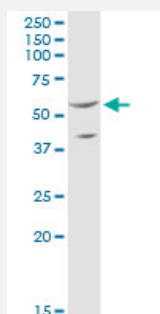
Size 50 ug

Applications



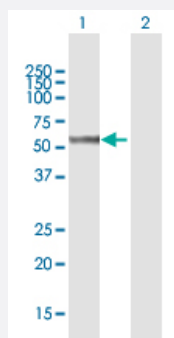
Western Blot (Tissue lysate)

SHMT2 MaxPab polyclonal antibody. Western Blot analysis of SHMT2 expression in human spleen.



Western Blot (Cell lysate)

SHMT2 MaxPab polyclonal antibody. Western Blot analysis of SHMT2 expression in HeLa.

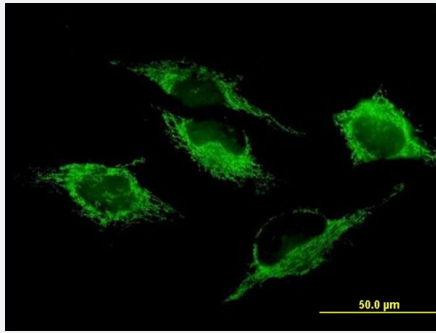


Western Blot (Transfected lysate)

Western Blot analysis of SHMT2 expression in transfected 293T cell line ([H00006472-T02](#)) by SHMT2 MaxPab polyclonal antibody.

Lane 1: SHMT2 transfected lysate(55.44 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to SHMT2 on HeLa cell.
[antibody concentration 10 ug/ml]

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human SHMT2 protein.
Immunogen	SHMT2 (NP_005403.2, 1 a.a. ~ 504 a.a) full-length human protein.
Sequence	MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSDPEMWELLQR EKDRQCRGLELIASENFCRAALEALGSCLNKYSEGYPGKRYYGGAIEVDEIELLCQRRALEAF DLDPAQWGVNVQPYSGSPANLAVYTALLQPHDRIMGLDLPDGGHLTHGYMSDVKRISATSIFFES MPYKLNPKTGLIDYNQLALTARLFRPRIAGTSAYARLIDYARMREVCDEVKAHLLADMAHISGLVA AKVIPSPFKHADIVTTTHKTLRGARSLIFYRKGVKAVDPKTGREIPYTFEDRINFAVFPSLQGGPH NHAAIAVAVALKQACTPMFREYSLQVLKNARAMADALLERGYSLVSGGTDNHLVLVDLRPKGLD GARAERVLELVSITANKNTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVDVFIDEGVNIGLEV KSKTAKLQDFKSFLDKDSETSQRLANLRQRVEQFARAFPMPPGFDEH
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

SHMT2 MaxPab polyclonal antibody. Western Blot analysis of SHMT2 expression in human spleen.

[Protocol Download](#)

- Western Blot (Cell lysate)

SHMT2 MaxPab polyclonal antibody. Western Blot analysis of SHMT2 expression in HeLa.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of SHMT2 expression in transfected 293T cell line ([H00006472-T02](#)) by SHMT2 MaxPab polyclonal antibody.

Lane 1: SHMT2 transfected lysate(55.44 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of purified MaxPab antibody to SHMT2 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — SHMT2

Entrez GeneID	6472
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GeneBank Accession#	NM_005412.4
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Protein Accession#	NP_005403.2
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Gene Name	SHMT2
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Gene Alias	GLYA, SHMT
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Gene Description	serine hydroxymethyltransferase 2 (mitochondrial)
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Omim ID	138450
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Gene Ontology	Hyperlink
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Other Designations	-
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Publication Reference

- [Loss of PYCR2 Causes Neurodegeneration by Increasing Cerebral Glycine Levels via SHMT2.](#)

Nathalie Escande-Beillard, Abigail Loh, Sahar N Saleem, Kohei Kanata, Yui Hashimoto, Umut Altunoglu, Artina Metoska, Joanes Grandjean, Fui Mee Ng, Oz Pomp, Nithya Baburajendran, Joyner Wong, Jeffrey Hill, Emmanuel Beillard, Patrick Cozzone, Maha Zaki, Hülya Kayserili, Hiroshi Hamada, Hidetaka Shiratori, Bruno Reversade.

Neuron 2020 Apr; S0896.

Application: IF, IHC-P, WB, Human, Mouse, Human primary dermal fibroblasts, Mouse brains

Pathway

- [Cyanoamino acid metabolism](#)
- [Glycine](#)
- [Metabolic pathways](#)
- [Methane metabolism](#)
- [One carbon pool by folate](#)

Disease

- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lymphoma](#)
- [Mental Disorders](#)
- [Neural Tube Defects](#)