

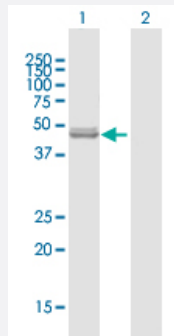
MaxPab®

NFS1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00009054-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of NFS1 expression in transfected 293T cell line ([H00009054-T01](#)) by NFS1 MaxPab polyclonal antibody.

Lane1:NFS1 transfected lysate(50.27 KDa).

Lane2:Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human NFS1 protein.
Immunogen	NFS1 (NP_066923.3, 1 a.a. ~ 457 a.a) full-length human protein.
Sequence	MLLRAAWRRAAVAVTAAPGPKPAAPTRGLRLRVGDRAPQSAVPADTAAAEVGPVLRPLYMDV QATTPLDPRVLDAMLPLYLINYYGNPHSRTHAYGWESEAAMERARQQVASLIGADPREIIFTSGATE SNNIAIKGVARFYRSRKKHLITTQTEHKCVLDSCRSLEAEGFQVTYLPVQKSGIIDLKELEAAIQPDT SLVSVMTVNNEIGVKQPIAEIGRICSSRKVYFHTDAAQAVGKIPLDVNDMKIDLMSISGHKIYGPKGV GAIYRRRPRVRVEALQSGGGQERGMRSGTVPTPLVVGLGAACEVAQQEMEYDHKRISKLSERLI QNIMKSLPDVVMNGDPKHHYPGCINLSFAYVEGESLLMALKDVALSSGSACTSASLEPSYVLRAI GTDEDLAHSSIRFGIGRFTTEEEVDYTVCKIQHVKRLREMSPLWEMVQDGDILKSIKWTQH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (91); Rat (91)
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.

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[Protocol Download](#)

Gene Info — NFS1

Entrez GeneID [9054](#)

GeneBank Accession# [NM_021100.3](#)

Protein Accession# [NP_066923.3](#)

Gene Name NFS1

Gene Alias HUSSY-08, IscS, NIFS

Gene Description NFS1 nitrogen fixation 1 homolog (S. cerevisiae)

Omim ID [603485](#)

Gene Ontology [Hyperlink](#)

Gene Summary Iron-sulfur clusters are required for the function of many cellular enzymes. The protein encoded by this gene supplies inorganic sulfur to these clusters by removing the sulfur from cysteine, creating alanine in the process. This gene uses alternate in-frame translation initiation sites to generate mitochondrial forms and cytoplasmic/nuclear forms. Selection of the alternative initiation sites is determined by the cytosolic pH. The encoded protein belongs to the class-V family of pyridoxal phosphate-dependent aminotransferases. [provided by RefSeq]

Other Designations NFS1 nitrogen fixation 1|OTTHUMP00000030799|cysteine desulfurase|nitrogen fixation 1 (S. cerevisiae, homolog)|nitrogen-fixing bacteria S-like protein

Publication Reference

- [Elucidation of the mechanism of mitochondrial iron loading in Friedreich's ataxia by analysis of a mouse mutant.](#)

Huang ML, Becker EM, Whitnall M, Rahmanto YS, Ponka P, Richardson DR.

PNAS 2009 Sep; 106(38):16381.

Application: WB-Ti, Mouse, Mouse hearts

Pathway

- [Thiamine metabolism](#)