

Product datasheet for **CF805820**

NFS1 Mouse Monoclonal Antibody [Clone ID: OTI5D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5D1
Applications:	IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-299 of human NFS1(NP_066923) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	50 kDa
Gene Name:	NFS1 cysteine desulfurase
Database Link:	NP_066923 Entrez Gene 18041 Mouse Entrez Gene 84594 Rat Entrez Gene 9054 Human Q9Y697



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Background:

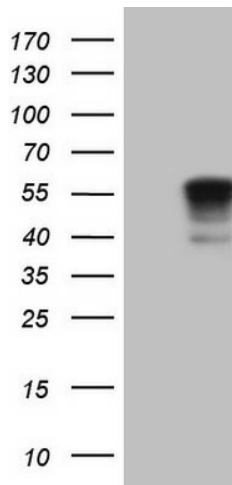
Iron-sulfur clusters are required for the function of many cellular enzymes. The proteins encoded by this gene supply inorganic sulfur to these clusters by removing the sulfur from cysteine, creating alanine in the process. This gene uses alternate in-frame translation initiation sites to generate mitochondrial forms and cytoplasmic/nuclear forms. Selection of the alternative initiation sites is determined by the cytosolic pH. The encoded proteins belong to the class-V family of pyridoxal phosphate-dependent aminotransferases. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov

Synonyms:

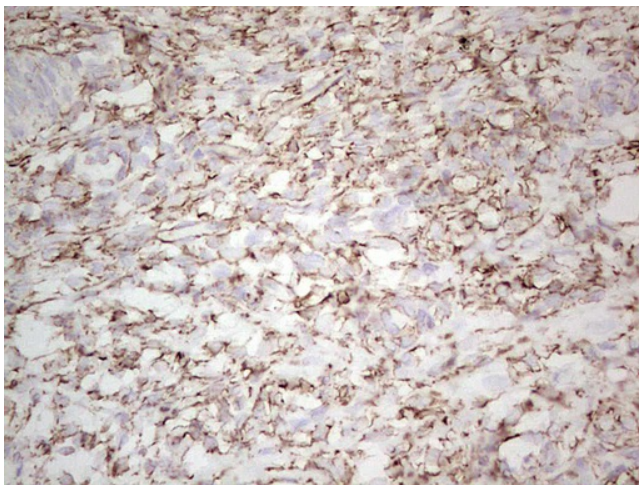
COXPD52; HUSSY-08; IscS; NIFS

Protein Pathways:

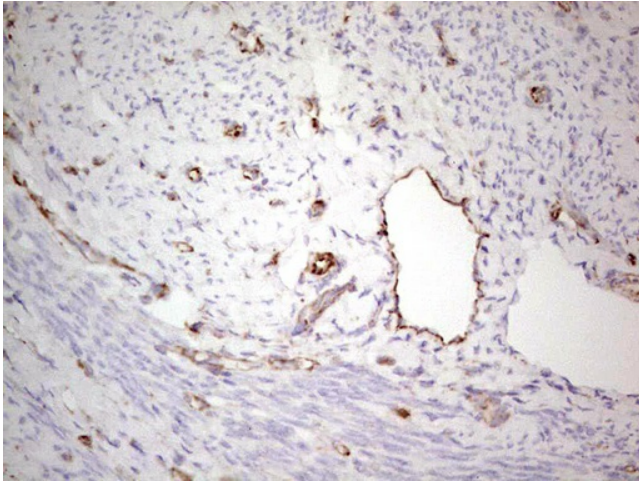
Thiamine metabolism

Product images:

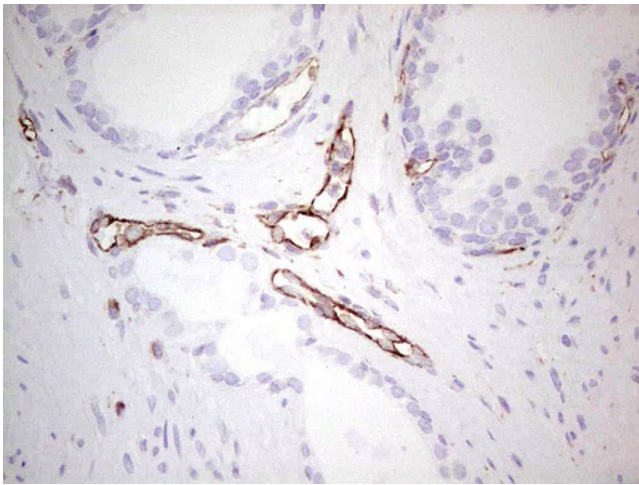
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NFS1 ([RC209405], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NFS1. Positive lysates [LY412089] (100ug) and [LC412089] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-NFS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA805820])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-NFS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA805820])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-NFS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA805820])