

## Product datasheet for **AP52867PU-N**

### **NFS1 (Center) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	Western blot: 1/100-1/500. Enzyme immunoassay: 1/1000.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	Ig
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic peptide - KLH conjugated - corresponding to the central region (between 120-149aa) of human NFS1
<b>Specificity:</b>	This antibody recognizes human NFS1.
<b>Formulation:</b>	PBS with 0.09% (W/V) Sodium azide State: Aff - Purified State: Liquid purified Ig fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Purified through a Protein A column followed by peptide affinity purification
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	NFS1 cysteine desulfurase
<b>Database Link:</b>	<a href="#">Entrez Gene 9054 Human Q9Y697</a>



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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.

**Synonyms:**

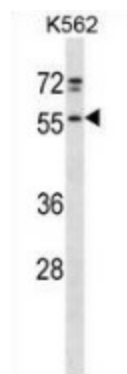
Cysteine desulfurase, NIFS, HUSSY-08

**Note:**

**Molecular Weight:** 50196 Da

**Protein Pathways:**

Thiamine metabolism

**Product images:**

Western blot analysis in K562 cell line lysates (35ug/lane) using NFS antibody. This demonstrates this antibody detected the NFS1 protein (arrow).