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Glutaredoxin 5 Rabbit pAb

Catalog # AP97595

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q86SX6
Other Accession	Q86SX6
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16628
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Glutaredoxin 5
Epitope Specificity	51-157/157
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glutaredoxin family. Monothiol subfamily. Contains 1 glutaredoxin domain.
SUBUNIT	Homodimer.
DISEASE	Defects in GLRX5 are a cause of anemia sideroblastic pyridoxine-refractory autosomal recessive (PRARSA) [MIM:205950]. A form of sideroblastic anemia not responsive to pyridoxine. Sideroblastic anemia is characterized by anemia of varying severity, hypochromic peripheral erythrocytes, systemic iron overload secondary to chronic ineffective erythropoiesis, and the presence of bone marrow ringed sideroblasts. Sideroblasts are characterized by iron-loaded mitochondria clustered around the nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a mitochondrial protein, which is evolutionarily conserved. It is involved in the biogenesis of iron-sulfur clusters, which are required for normal iron homeostasis. Mutations in this gene are associated with autosomal recessive pyridoxine-refractory sideroblastic anemia. [provided by RefSeq, May 2010]

Additional Information

Gene ID	51218
Other Names	C14orf87; FLB4739; GRX5; PR01238; PRO1238; PRSA; SIDBA3; SPAHGC; RGD1308383; GLRX5_HUMAN; GLRX5; Monothiol glutaredoxin-5; GLRX5_MOUSE; glutaredoxin 5; chromosome 14 open reading frame 87; glutaredoxin 5 homolog (S. cerevisiae)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GLRX5
Synonyms	C14orf87
Function	Monothiol glutaredoxin involved in mitochondrial iron-sulfur (Fe/S) cluster transfer (PubMed:20364084, PubMed:23615440). Receives 2Fe/2S clusters from scaffold protein ISCU and mediates their transfer to apoproteins, to the 4Fe/FS cluster biosynthesis machinery, or export from mitochondrion (PubMed:20364084, PubMed:23615440, PubMed:24334290). Required for normal regulation of hemoglobin synthesis by the iron- sulfur protein ACO1 (PubMed:20364084).
Cellular Location	Mitochondrion matrix

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.