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GLRX5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5035b

Product Information

Application	WB, FC, E
Primary Accession	Q86SX6
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25680
Calculated MW	16628
Antigen Region	129-157

Additional Information

Gene ID	51218
Other Names	Glutaredoxin-related protein 5, mitochondrial, Monothiol glutaredoxin-5, GLRX5, C14orf87
Target/Specificity	This GLRX5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 129-157 amino acids from the C-terminal region of human GLRX5.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GLRX5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

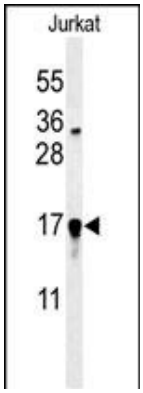
Background

GLRX5 is monothiol glutaredoxin involved in the biogenesis of iron-sulfur clusters. GLRX5 required for normal iron homeostasis. GLRX5 is required for normal regulation of hemoglobin synthesis by the iron-sulfur protein ACO1.

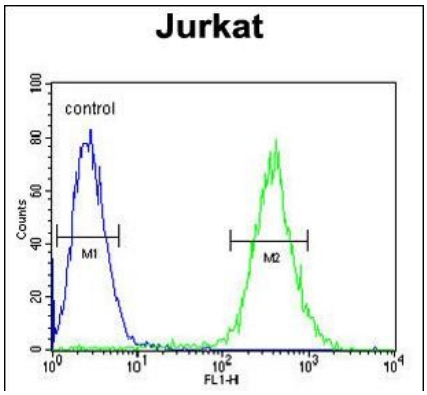
References

Bergmann, A.K., et al. Pediatr Blood Cancer 54(2):273-278(2010)
Camaschella, C., et al. Blood 110(4):1353-1358(2007)
Wingert, R.A., et al. Nature 436(7053):1035-1039(2005)

Images



Western blot analysis of GLRX5 Antibody (C-term) (Cat. #AP5035b) in Jurkat cell line lysates (35ug/lane).GLRX5 (arrow) was detected using the purified Pab.



GLRX5 Antibody (C-term) (Cat. #AP5035b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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