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SLC25A38 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57674

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96DW6
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33566
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC25A38
Epitope Specificity	101-200/304
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion inner membrane.
SIMILARITY	Belongs to the mitochondrial carrier family. SLC25A38 subfamily. Contains 3 Solcar repeats.
DISEASE	Defects in SLC25A38 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 is a member of the mitochondrial carrier family. The encoded protein is required during erythropoiesis and is important for the biosynthesis of heme. Mutations in this gene are the cause of autosomal congenital sideroblastic anemia.[provided by RefSeq, Mar 2010]

Additional Information

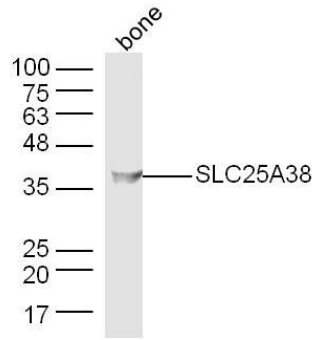
Gene ID	54977
Other Names	Mitochondrial glycine transporter {ECO:0000255|HAMAP-Rule:MF_03064}, Mitochondrial glycine transporter GlyC, Solute carrier family 25 member 38 {ECO:0000255|HAMAP-Rule:MF_03064}, SLC25A38 {ECO:0000255|HAMAP-Rule:MF_03064}
Target/Specificity	Preferentially expressed in erythroid cells.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

	0,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

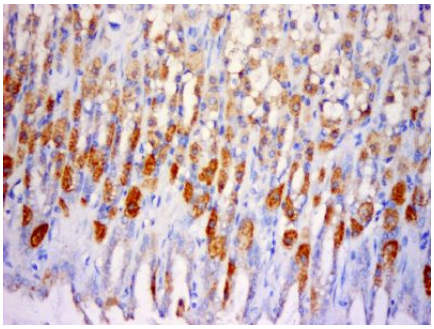
Protein Information

Name	SLC25A38 (HGNC:26054)
Function	Mitochondrial glycine transporter that imports glycine into the mitochondrial matrix. Plays an important role in providing glycine for the first enzymatic step in heme biosynthesis, the condensation of glycine with succinyl-CoA to produce 5-aminolevulinate (ALA) in the mitochondrial matrix. Required during erythropoiesis.
Cellular Location	Mitochondrion inner membrane {ECO:0000255|HAMAP- Rule:MF_03064}; Multi-pass membrane protein {ECO:0000255|HAMAP- Rule:MF_03064}
Tissue Location	Preferentially expressed in erythroid cells.

Images



Sample: bone (Mouse) Lysate at 40 ug
Primary: Anti-SLC25A38(AP57674)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 34kD
Observed band size: 37kD



Paraformaldehyde-fixed, paraffin embedded (Rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLC25A38) Polyclonal Antibody, Unconjugated (AP57674) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.