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# Rabbit Anti-SLC25A38 antibody

SL19815R

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| **Product Name:** | SLC25A38 |
| **Chinese Name:** | 溶质载体家族蛋白25成员38抗体 |
| **Alias:** | FLJ20551; FLJ22703; S2538_HUMAN; slc25a38; Solute carrier family 25 member 38. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Cow,Rabbit,Sheep, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 34kDa |
| **Cellular localization:** | The cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human SLC25A38:101-200/304 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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]<br><br>**Function:**<br>Mitochondrial carrier required during erythropoiesis. Probably involved in the |

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| | biosynthesis of heme, possibly by facilitating 5-aminolevulinate (ALA) production. May act by importing glycine into mitochondria or by exchanging glycine for ALA across the mitochondrial inner membrane.<br><br>**Subcellular Location:**<br>Mitochondrion inner membrane.<br><br>**Tissue Specificity:**<br>Preferentially expressed in erythroid cells.<br><br>**DISEASE:**<br>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.<br><br>**Similarity:**<br>Belongs to the mitochondrial carrier family.<br>SLC25A38 subfamily.<br>Contains 3 Solcar repeats.<br><br>**SWISS:**<br>Q96DW6<br><br>**Gene ID:**<br>54977<br><br>**Database links:**<br><br>Entrez Gene: 512325 Cow<br><br>Entrez Gene: 54977 Human<br><br>Entrez Gene: 208638 Mouse<br><br>Entrez Gene: 301067 Rat<br><br>Entrez Gene: 100147784 Sheep<br><br>Omim: 610819 Human<br><br>SwissProt: Q5EAC0 Cow<br><br>SwissProt: Q96DW6 Human |

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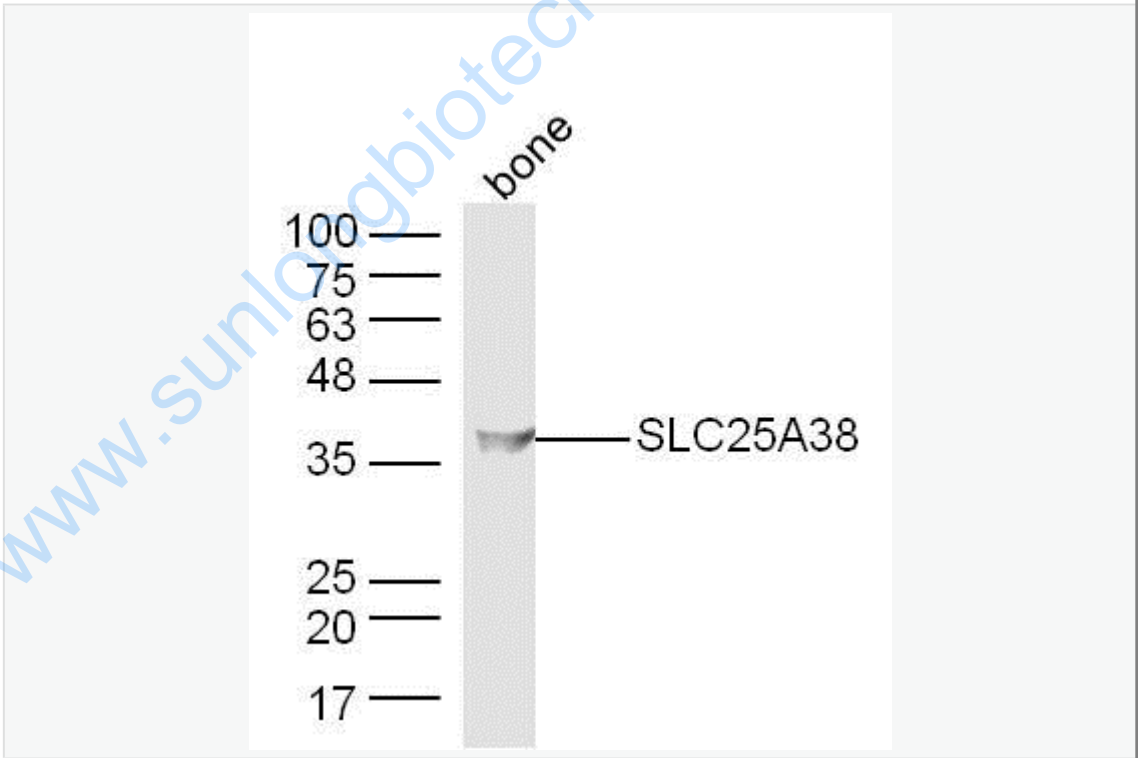
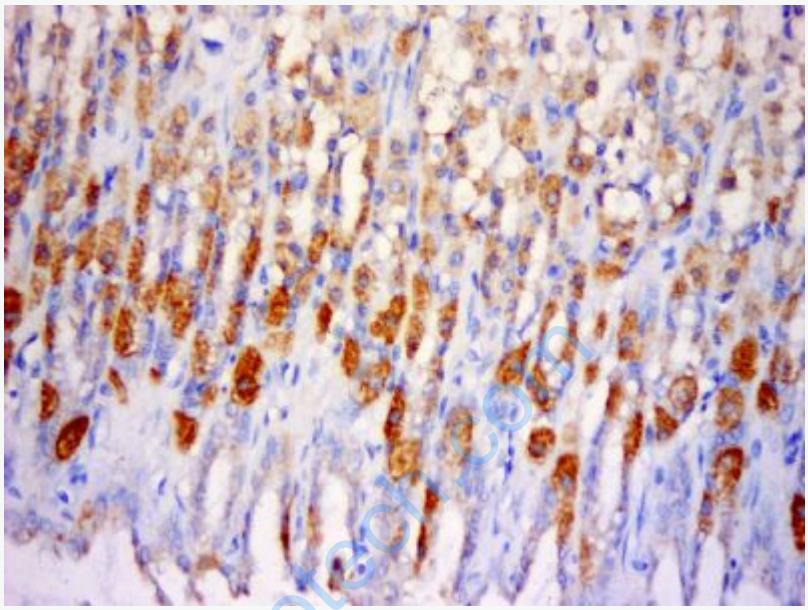
| | SwissProt: Q91XD8 Mouse<br><br>SwissProt: Q499U1 Rat<br><br>SwissProt: S2538 Sheep<br><br>Unigene: 369615 Human<br><br>Unigene: 236656 Mouse<br><br>Unigene: 21048 Rat<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Sample: bone (Mouse) Lysate at 40 ug<br><br>Primary: Anti-SLC25A38(SL19815R)at 1/300 dilution<br><br>Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution<br><br>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 (SL19815R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.