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# Mouse Anti-Transferrin

SLM2052M-FITC

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| **Product Name:** | Anti-Transferrin(1F10)/FITC |
| **Chinese Name:** | FITC标记的转铁蛋白单克隆抗体 |
| **Alias:** | Apotransferrin; Beta 1 metal binding globulin; DKFZp781D0156; PRO1400; PRO1557; PRO2086; Serotransferrin precursor; Siderophilin; TF; Transferin; Transferrin. |
| **Organism Species:** | Mouse |
| **Clonality:** | Monoclonal |
| **Clone NO:** | 1F10 |
| **React Species:** | Human, |
| **Applications:** | not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 77kDa |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | Full length native Transferrin protein purified from human plasma |
| **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. |
| **Product Detail:** | **background:**<br>This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding |

protein (GPBP) involved in the removal of certain organic matter and allergens from serum. [provided by RefSeq, Sep 2009].

**Function:**
Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.

**Subunit:**
Monomer.

**Subcellular Location:**
Secreted.

**Tissue Specificity:**
Expressed by the liver and secreted in plasma.

**DISEASE:**
Defects in TF are the cause of atransferrinemia (ATRAF) [MIM:209300]. Atransferrinemia is rare autosomal recessive disorder characterized by iron overload and hypochromic anemia.

**Similarity:**
Belongs to the transferrin family.
Contains 2 transferrin-like domains.

**Database links:**

Entrez Gene: 7018Human

Entrez Gene: 22041Mouse

Entrez Gene: 24825Rat

Omim: 190000Human

SwissProt: P02787Human

SwissProt: Q921I1Mouse

SwissProt: P12346Rat

Unigene: 518267Human

Unigene: 37214Mouse

Unigene: 91296Rat

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| | **Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |