

## RPCB1078

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### Product Information

<b>Product SKU:</b>	RPCB1078	<b>Gene ID:</b>	22041	<b>Size:</b>	10µg
<b>Tag:</b>	C-His	<b>Reactivity:</b>	Mouse		

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### Additional Information

<b>Expression Host:</b>	HEK293 cells	<b>Swissprot:</b>	Q92111
<b>Purity:</b>	> 95% by SDS-PAGE.		

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### Protein Information

**Background:** Transferrin is a glycoprotein with an approximate molecular weight of 76.5 kDa. This glycoprotein 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 Transferrin 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. Transferrins are iron binding transport proteins that bind Fe<sup>3+</sup> ion in association with the binding of an anion, usually bicarbonate. This transferrin binds only one Fe<sup>3+</sup> ion per protein molecule. Transports iron ions from the hemolymph into the eggs during the vitellogenic stage. 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. When a transferrin loaded with iron encounters with a transferring receptor on cell surface, transferring binds to it and, as a consequence, is transported into the cell in a vesicle by receptor-mediated endocytosis. The pH is reduced by hydrogen ion pumps. The lower pH causes transferrin to release its iron ions. The

receptor is then transported through the endocytic cycle back to the cell surface, ready for another round of iron uptake. Each transferrin molecule has the ability to carry two iron ions in the ferric form.

- Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Mouse Transferrin/TF Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.
- Endotoxin:** <0.1EU/μg
- Formulation:** Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
- Storage:** Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.