

Product datasheet

Recombinant Human Transferrin Receptor protein (denatured) ab202198

[1 Image](#)

Description

Product name	Recombinant Human Transferrin Receptor protein (denatured)
Purity	> 80 % SDS-PAGE. ab202198 was purified by conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P02786</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMCKGVEP KTECERLAGT ESPVREEPGE DFPAARRLYW DDLKRKLSEK LDSTDFGTI KLLNENSYP REAGSQKDEN LALYVENQFR EFKLSKVWRD QHFVKIQVKD SAQNSVIID KNGRLVYLVE NPGGYVAYSK AATVTGKLVH ANFGTKKDFE DLYTPVNGSI VIVRAGKITF AEKVANAESL NAIGVLYMD QTKFPIVNAE LSFFGHAHLG TGDPTYTPGFP SFNHTQFPPS RSSGLPNIPV QTISRAAAEK LFGNMEGDCP SDWKTDSTCR MVTSESKNVK LTVSNVLKEI KILNIFGVIK GFVEPDHYVV VQAQRDAWGP GAAKSGVGTA LLLKLAQMFS DMVLKDGFP SRSIIFASWS AGDFGSVGAT EWLEGYLSSL HLKAFYINL DKAVLGTSNF KVSASPLLYT LIEKTMQNVK HPVVGQFLYQ DSNWASKVEK LTLDNAAPPF LAYSGIPAVS FCFCEDTDYP YLGTMTDITYK ELIERIPELN KVARAAA EVA GQFVIKLTHD VELNLDYERY NSQLLSFVRD LNQYRA DIKE MGLSLQWLYS ARGDFFRATS RLTTDFGNAE KTDRFVMKKL NDRVMRVEYH FLSPYVSPKE SPFRHVFVWGS GSHTLPALLE NLKLRKQNG AFNETLFRNQ LALATWTIQG AANALSGDVW DIDNEF</p>
Predicted molecular weight	78 kDa including tags
Amino acids	89 to 760

Tags	His tag N-Terminus
Additional sequence information	corresponding to extracellular domain (NP_001121620).
Description	Recombinant Human Transferrin Receptor protein

Specifications

Our **Abpromise guarantee** covers the use of **ab202198** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

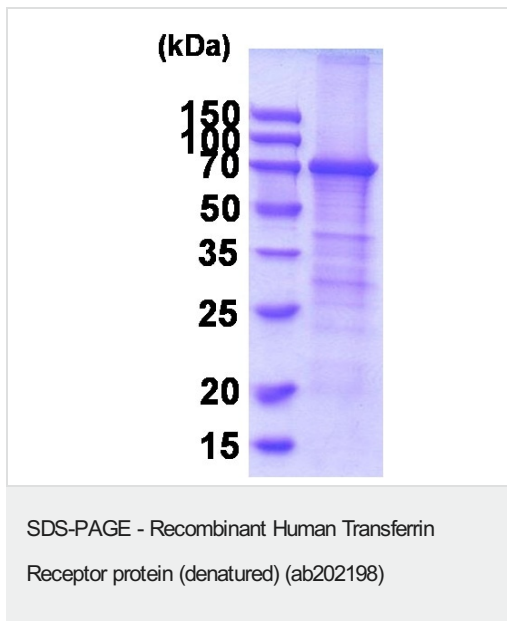
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)
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General Info

Function	Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. Positively regulates T and B cell proliferation through iron uptake (PubMed:26642240). (Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo virus.
Involvement in disease	Immunodeficiency 46
Sequence similarities	Belongs to the peptidase M28 family. M28B subfamily. Contains 1 PA (protease associated) domain.
Post-translational modifications	N- and O-glycosylated, phosphorylated and palmitoylated. The serum form is only glycosylated. Proteolytically cleaved on Arg-100 to produce the soluble serum form (sTfR). Palmitoylated on both Cys-62 and Cys-67. Cys-62 seems to be the major site of palmitoylation.
Cellular localization	Secreted and Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



15% SDS-PAGE analysis of ab202198 (3ug).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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