TfR mutant protein:K534A,recombinant(hFc Tag)

Catalog: NCP0128 Type: Human Source: 293F

BackGround:

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 heditary 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. Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway. When dietary levels of stearate (C18:0) are low, promotes activation of the JNK pathway, resulting in HUWE1-mediated ubiquitination and subsequent degradation of the mitofusin MFN2 and inhibition of mitochondrial fusion. When dietary levels of stearate (C18:0) are high, TFRC stearoylation inhibits activation of the JNK pathway and thus degradation of the mitofusin MFN2.

Product:

PBS,pH7.4

Size:

100ug/1mg

Swiss-Prot:

P02786

Purification&Purity:

The protein was purified from 293F and the purity is > 95% (by SDS-PAGE).

Applications:

The protein has a calculated MW of 76 kDa.

Storage&Stability:

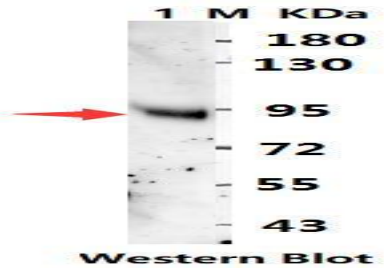
Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Protein length:

AA Leu 122 - Ile 550 (Accession # P02786)

DATA:

Line M：Protein Marker； Lne1：TfR-K534A（Lys mutation Ala）2 μg



Line M：Protein Marker； Lne1：TfR-K534A（Lys mutation Ala）

Note:

For research use only, not for use in diagnostic procedure.

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