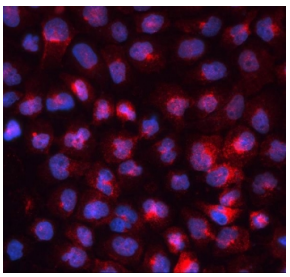
Transferrin Receptor Antibody (R31646)

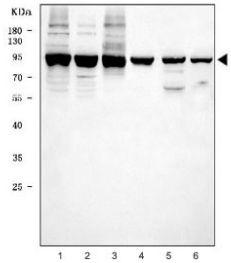
Catalog No.	Formulation	Size
R31646	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

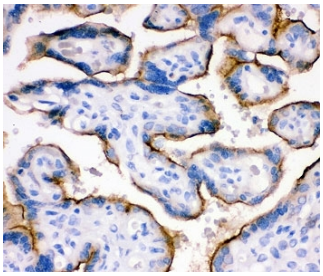
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	7037
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunohistochemistry (Frozen) : 0.5-1ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Transferrin Receptor antibody is available for research use only.



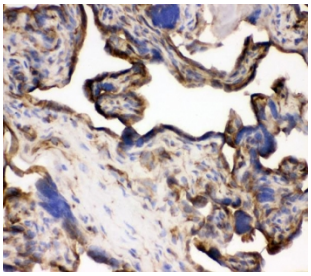
Immunofluorescent staining of FFPE human A431 cells with Transferrin Receptor antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



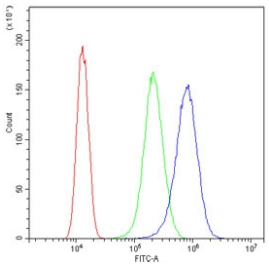
Western blot testing of 1) human HeLa, 2) human K562, 3) human HT1080, 4) rat thymus, 5) mouse RAW264.7 and 6) mouse SP2/0 cell lysate with Transferrin Receptor antibody. Predicted molecular weight 85~95 kDa.



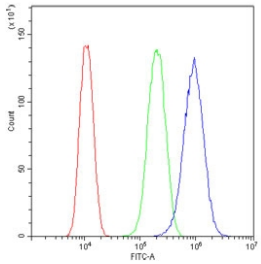
IHC staining of FFPE human placenta with Transferrin Receptor antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



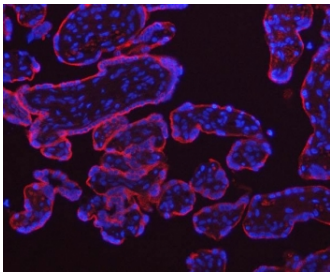
IHC staining of frozen human placenta with Transferrin Receptor antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Flow cytometry testing of human SiHa cells with Transferrin Receptor antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Transferrin Receptor antibody.



Flow cytometry testing of human U-87 MG cells with Transferrin Receptor antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Transferrin Receptor antibody.



Immunofluorescent staining of FFPE human placental tissue with Transferrin Receptor antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.

Description

Transferrin receptor protein 1 (TfR1), also known as Cluster of Differentiation 71 (CD71), is a protein that in humans is encoded by the TFRC gene. It is mapped to 3q29. TFRC is a transmembrane glycoprotein composed of two disulfide-linked monomers joined by two disulfide bonds. Expression of human TfR1 in hamster cell lines markedly enhanced the infection of viruses pseudotyped with the glycoprotein of Machupo, Guanarito, and Junin viruses. TfR1 is a cellular receptor for New World hemorrhagic fever arenaviruses. It is required for iron delivery from transferrin to cells.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Transferrin Receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-198) was used as the immunogen for this Transferrin Receptor antibody.

Storage

After reconstitution, the Transferrin Receptor antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.