

Anti-Transferrin Antibody

ER2001-53



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, FC
Molecular Wt:	77 kDa

Description: Transferrins are iron binding transport proteins which can bind two Fe³⁺ 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.

Immunogen: Synthetic peptide within human Transferrin aa 500-550.

Positive control: HepG2 cell lysates, human liver tissue, HepG2, human kidney tissue, human serum.

Subcellular location: Secreted.

Database links: SwissProt: P02787 Human

Recommended Dilutions:

WB	1:500-1:5,000
IHC-P	1:100-1:1,000
FC	1:50-1:100

Storage Buffer: 1*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

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Images

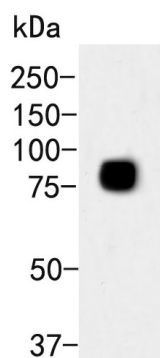


Fig1: Western blot analysis of Transferrin on HepG2 cell lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ER2001-53, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.

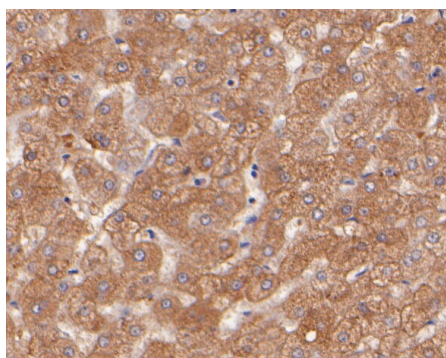


Fig2: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Transferrin antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ER2001-53, 1/400) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

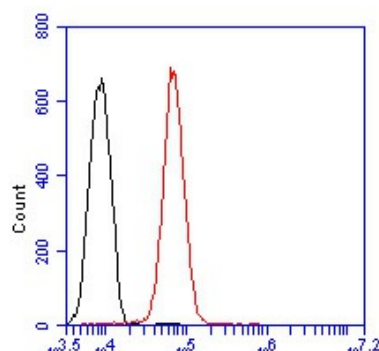


Fig3: Flow cytometric analysis of Transferrin was done on HepG2 cells. The cells were fixed, permeabilized and stained with the primary antibody (ER2001-53, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

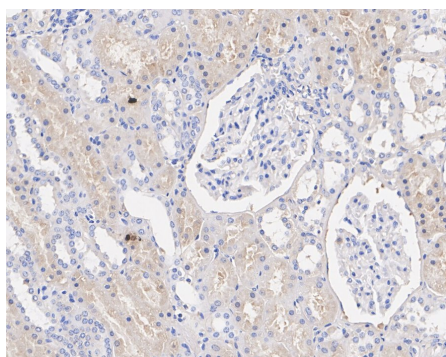


Fig4: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-Transferrin antibody (ER2001-53) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ER2001-53) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Fig5: Western blot analysis of Transferrin on human serum with Rabbit anti-Transferrin antibody (ER2001-53) at 1/1,000 dilution.

Lysates/proteins at 10 µg/Lane.

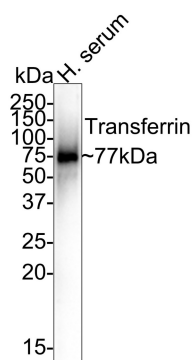
Predicted band size: 77 kDa

Observed band size: 77 kDa

Exposure time: 2 minutes 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ER2001-53) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.



Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. McGillivray R.T.A.et.al.The primary structure of human serum transferrin. The structures of seven cyanogen bromide fragments and the assembly of the complete structure.J. Biol. Chem. 258:3543-3553(1983).

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