

Datasheet for ABIN650772

anti-Transferrin Receptor antibody (C-Term)

5 Images

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Overview

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|----------------------|---|
| Quantity: | 400 µL |
| Target: | Transferrin Receptor (TFRC) |
| Binding Specificity: | AA 649-677, C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Transferrin Receptor antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

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| Immunogen: | This CD71 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 649-677 amino acids from the C-terminal region of human CD71. |
| Clone: | RB20736 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification. |

Target Details

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| Target: | Transferrin Receptor (TFRC) |
| Alternative Name: | CD71 (TFRC Products) |

Target Details

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|-------------------|---|
| 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). Useful in studies of dividing haematopoietic and tumour cell populations, and metabolic activity. A second ligand, the heditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C terminal binding site. The antigen is present on most dividing cells, including normally cycling in vivo hematopoietic progenitor cells, mitogenically stimulated cells in vitro, some primary tumor cells and most proliferating cells in vitro. The transferrin receptor has been structurally characterized as a sulfide bound dimer of identical glycoprotein subunits of 95 kDa. The transferrin receptor is not present on resting blood lymphocytes. On PBL, the receptor appears after activation. The expression of transferrin receptor is coordinately regulated with cell growth. Present on T and B cell lines. The soluble (or serum) transferrin receptor (sTfR) is a circulating truncated form of the membrane receptor protein, it is an 85 kDa glycoprotein forming in serum a 320 kDa complex with diferric transferrin. The most important clinical use of the sTfR determination is in the differential diagnosis between iron deficiency anaemia and the anaemia of chronic disease. This antibody is an indicator of proliferation activity. It also has prognostic significance when typing tumors, such as leukemias and lymphomas. |
| Molecular Weight: | 84871 |
| Gene ID: | 7037 |
| NCBI Accession: | NP_001121620 , NP_003225 |
| UniProt: | P02786 |
| Pathways: | Transition Metal Ion Homeostasis |

Application Details

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| Application Notes: | WB: 1:1000. WB: 1:2000. IHC-P: 1:10~50. IHC-P: 1:25. FC: 1:10~50 |
| Restrictions: | For Research Use only |

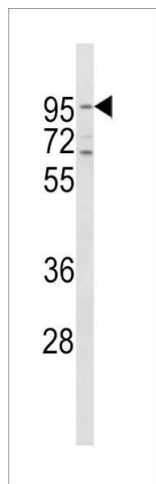
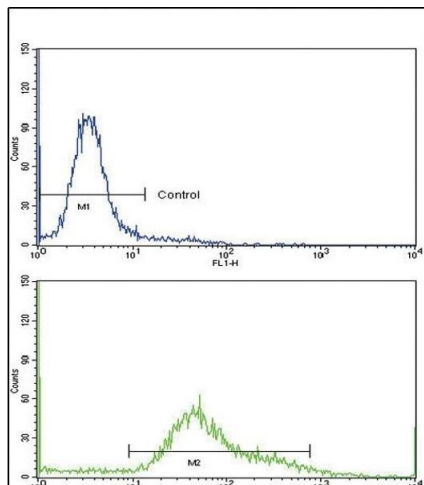
Handling

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| Format: | Liquid |
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Handling

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| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C, -20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |

Images

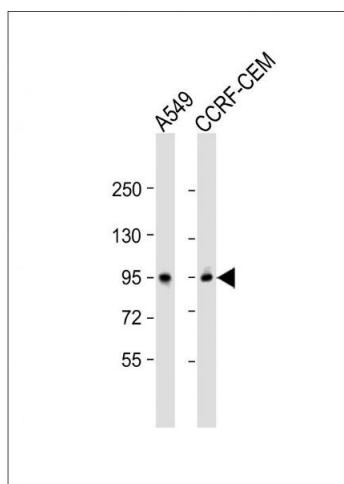


Flow Cytometry

Image 1. Flow cytometric analysis of HeLa cells using CD71 Antibody (C-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. Western blot analysis of CD71 Antibody (C-term) (ABIN650772 and ABIN2850440) in HeLa cell line lysates (35 µg/lane). CD71 (arrow) was detected using the purified Pab.



Western Blotting

Image 3. All lanes : Anti-CD71 Antibody (C-term) at 1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: CCRF-CEM whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 85 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN650772.