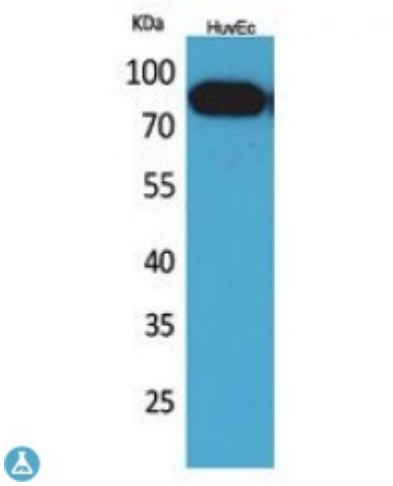
# Anti-CD71 antibody

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| **Description** | Rabbit polyclonal to CD71. |

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| **Model** | STJ96739 |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Applications** | ELISA, IHC, WB |
| **Immunogen** | Synthesized peptide derived from human CD71. |
| **Immunogen Region** | 91-140 aa, N-terminal |
| **Gene ID** | 7037 |
| **Gene Symbol** | TFRC |
| **Dilution range** | WB 1:500-1:2000IHC-P 1:100-1:300ELISA 1:20000 |
| **Specificity** | CD71 Polyclonal Antibody detects endogenous levels of CD71 protein. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Transferrin receptor protein 1 TR TfR TfR1 Trfr T9 p90 CD antigen CD71 Transferrin receptor protein 1, serum form sTfR |
| **Molecular Weight** | 85 kDa |
| **Clonality** | Polyclonal |
| **Conjugation** | Unconjugated |

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| **Isotype** | IgG |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1 mg/ml |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:11763OMIM:190010 |
| **Alternative Names** | Transferrin receptor protein 1 TR TfR TfR1 Trfr T9 p90 CD antigen CD71 Transferrin receptor protein 1, serum form sTfR |
| **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 . 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 . (Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo virus. |
| **Cellular Localization** | Cell membrane Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Transferrin receptor protein 1, serum form: Secreted |
| **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. |