



CD71/TfR Monoclonal Antibody

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|---------------------------|--|
| Catalog No | BYmab-14016 |
| Isotype | IgG |
| Reactivity | Human;Mouse;Rat |
| Applications | WB |
| Gene Name | TFRC |
| Protein Name | Transferrin receptor protein 1 |
| Immunogen | The antiserum was produced against synthesized peptide derived from the N-terminal region of human TFRC. AA range:101-150 |
| Specificity | CD71 Monoclonal Antibody detects endogenous levels of CD71 protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source | Monoclonal, Mouse,IgG |
| Purification | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| Dilution | WB 1:500-2000 |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | TFRC; Transferrin receptor protein 1; TR; TfR; TfR1; Trfr; T9; p90; CD71 |
| Observed Band | 85kD |
| Cell Pathway | Cell membrane ; Single-pass type II membrane protein . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .; [Transferrin receptor protein 1, serum form]: Secreted . |
| Tissue Specificity | Brain,Epithelium,Erythroleukemia,Eye,Human endometrium carcinoma cell line,Liver,Pl |
| Function | 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 (By similarity). A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site.,induction:Regulated by cellular iron levels through binding of the iron regulatory proteins, IRP1 and IRP2, to iron-responsive elements in the 3'-UTR. Up-regulated upon mitogenic |

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stimulation.,miscellaneous:Canine and feline parvoviruses bind human and feline transferrin receptors and use t

Background

This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015],

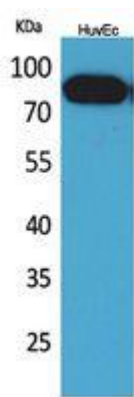
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CD71/TfR Monoclonal Antibody