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# 36-3242: Anti-CD71 / Transferrin Receptor (TFRC) (Extracellular Domain) Monoclonal Antibody(Clone: TFRC/1839)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | TFRC/1839 |
| **Application :** | ELISA,IHC |
| **Reactivity :** | Human |
| **Gene :** | TFRC |
| **Gene ID :** | 7037 |
| **Uniprot ID :** | P02786 |
| **Alternative Name :** | Mtvr-1, p90, TFR1, TFRC transferrin receptor (p90 CD71), TRFR |
| **Isotype :** | Mouse IgG2b, kappa |
| **Immunogen Information :** | Recombinant extracellular fragment (around aa 94-212) of human TFRC protein (exact sequence is proprietary) |

## Description

It recognizes a ~90-95kDa protein which is identified as cell surface transferrin receptor (CD71), a disulfide-bonded homodimeric glycoprotein of 180-190kDa. This MAb is highly specific to CD71 and shows no cross-reaction with other related proteins. Ligand for transferrin receptor is the serum iron transport protein, transferrin. This receptor is broadly distributed in carcinomas, sarcomas, leukemias, and lymphomas. CD71/Transferrin receptor has been reported to be associated with cell proliferation in both normal and neoplastic tissues and useful in predicting clinical behavior or response to therapy in a number of malignancies including breast cancer.

## Product Info

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| **Amount :** | 20 µg / 100 µg |
| **Content :** | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage condition :** | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

## Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

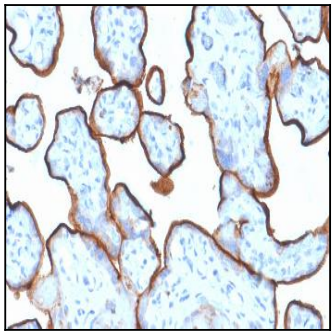

Fig. 1: Formalin-fixed, paraffin-embedded human Placenta stained with CD71 Mouse Monoclonal Antibody (TFRC/1839).

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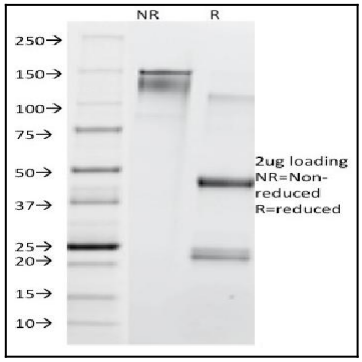


Fig. 2: SDS-PAGE Analysis Purified CD71 Mouse Monoclonal Antibody (TFRC/1839). Confirmation of Integrity and Purity of Antibody

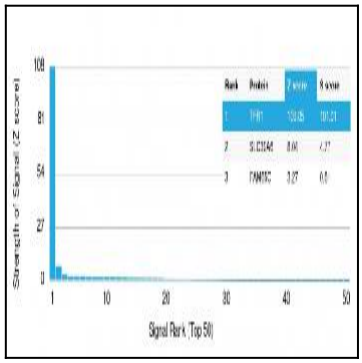


Fig. 3: Analysis of Protein Array containing >19,000 full-length human proteins using CD71 Mouse Monoclonal Antibody (TFRC/1839) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.