CD71 / Transferrin Receptor (TFRC) Antibody

Mouse Monoclonal Antibody [Clone TFRC/3630]

Catalog No	Format	Size
7037-MSM12-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7037-MSM12-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7037-MSM12-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

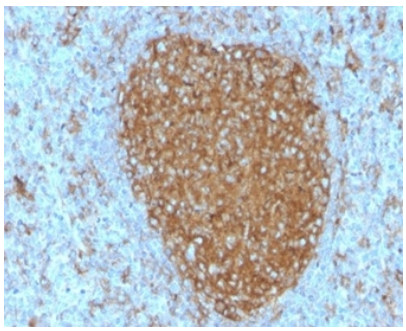
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

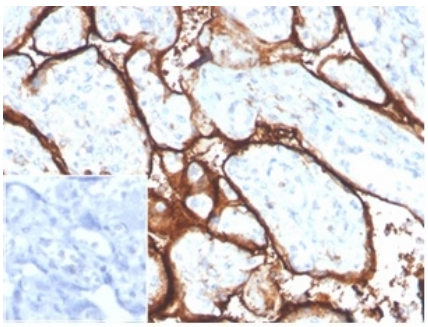
Clone	TFRC/3630
Gene Name	TFRC
Immunogen	Recombinant fragment of human TFRC receptor (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	85-95kDa (monomer); 190kDa (dimer)
Cellular Localization	Cell membrane, Melanosome, Secreted
Species Reactivity	Human
Positive Control	CCRF-CEM, Jurkat or K-562. Human placenta or breast carcinoma.

**Optimal dilution for a specific application should be determined.*

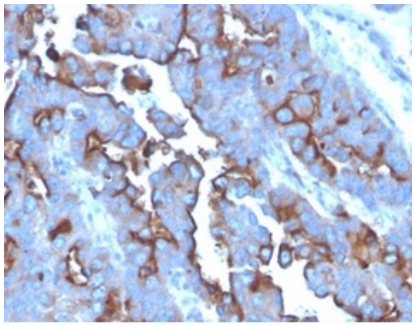
Product Images for CD71 / Transferrin Receptor (TFRC) Antibody



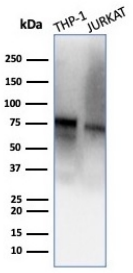
Formalin-fixed, paraffin-embedded human tonsil stained with CD71 Mouse Monoclonal Antibody (TFRC/3630). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



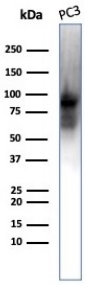
Formalin-fixed, paraffin-embedded human placenta stained with CD71 Mouse Monoclonal Antibody (TFRC/3630). Inset: PBS instead of primary antibody; secondary only negative control.



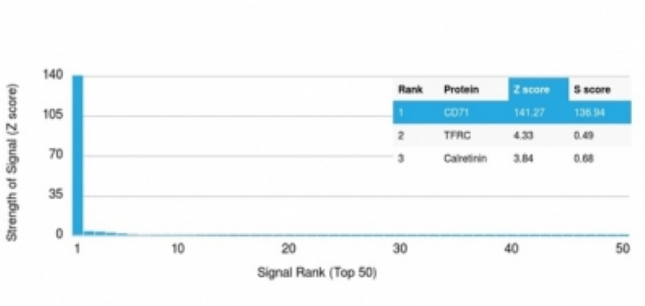
Formalin-fixed, paraffin-embedded human prostate carcinoma stained with CD71 Mouse Monoclonal Antibody (TFRC/3630) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



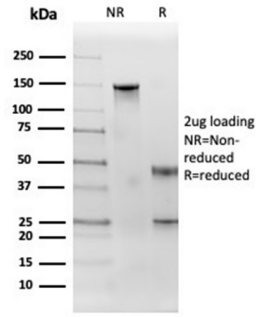
Western blot analysis of THP-1 and Jurkat cell lysates using CD71 Mouse Monoclonal Antibody (TFRC/3630).



Western blot analysis of PC-3 cell lysate using CD71 Mouse Monoclonal Antibody (TFRC/3630).



Analysis of Protein Array containing >19,000 full-length human proteins using CD71 / TFRC Monospecific Mouse Monoclonal Antibody (TFRC/3630). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



SDS-PAGE Analysis Purified CD71 Mouse Monoclonal antibody (TFRC/3630). Confirmation of Purity and Integrity of Antibody.

2 Union Square, Union City, CA 94587, Tel: 1-866-2-NEOBIO (1-866-263-6246)
orders@NeoBiotechnologies.com, www.NeoBiotechnologies.com

NeoBiotechnologies
Your Partner in Proteome Research

Specificity & Comments

It recognizes a ~90-95kDa protein which is identified as cell surface transferrin receptor (CD71), a disulfide-bonded homodimeric glycoprotein of 180-190kDa (Workshop IV). 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.

Supplied As

200ug/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 and Stability

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. No MSDS required.

Research Areas

Cardiovascular, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.