

# Product Datasheet

## TfR (Transferrin R) Antibody (DF1513)

### NBP2-32945-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-32945-0.1mg**

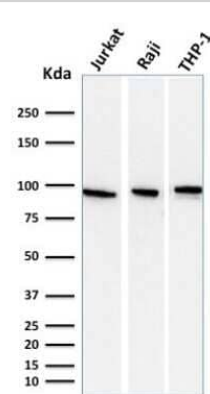
TfR (Transferrin R) Antibody (DF1513)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	DF1513
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34602)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	7037
Gene Symbol	TFRC
Species	Human
Specificity/Sensitivity	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 monoclonal antibody 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.
Immunogen	KG1 acute myeloid leukemia cell line
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1-2 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml
Application Notes	Optimal dilution for a specific application should be determined.

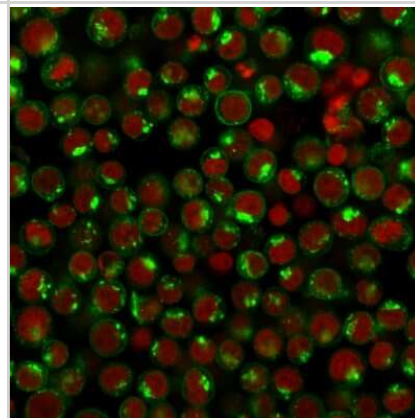


## Images

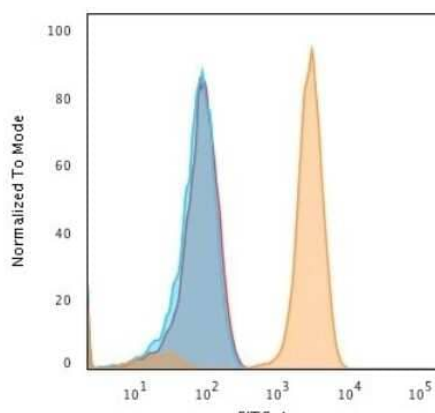
Western Blot: TfR (Transferrin R) Antibody (DF1513) [NBP2-32945] - Western Blot Analysis of Jurkat, Raji, and THP-1 cell lysate using TfR (Transferrin R) Antibody (DF1513).



Immunocytochemistry/Immunofluorescence: TfR (Transferrin R) Antibody (DF1513) [NBP2-32945] - Immunofluorescence Analysis of Human Jurkat cells labeling CD71 with TfR (Transferrin R) Antibody (DF1513) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red)



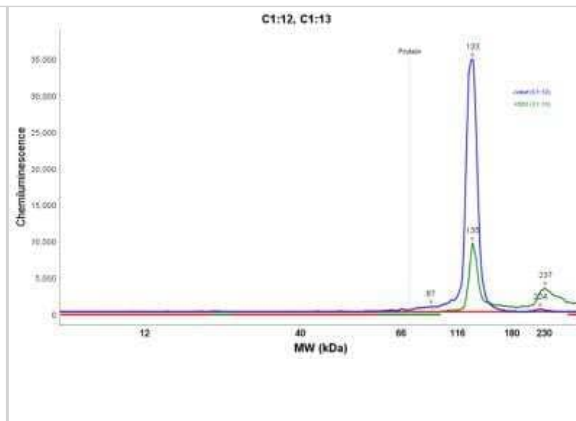
Flow Cytometry: TfR (Transferrin R) Antibody (DF1513) [NBP2-32945] - Flow Cytometric Analysis of human Jurkat cells using TfR (Transferrin R) antibody (DF1513) followed by Goat anti-Mouse IgG-CF488 (Orange); cells alone (Blue); Isotype Control (Red).



Simple Western: TfR (Transferrin R) Antibody (DF1513) [NBP2-32945] - Simple Western lane view shows a specific band for TfR (Transferrin R) in 0.2 mg/ml of Jurkat (left) and K562 (right) lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: TfR (Transferrin R) Antibody (DF1513) [NBP2-32945] - Electropherogram image of the corresponding Simple Western lane. TfR (Transferrin R) antibody was used at 10 ug/ml dilution of Jurkat and K562 lysates(s) respectively.



## Publications

Principe P, Mukosera GT, Gray-Hutto N et al. Nitric Oxide Affects Heme Oxygenase-1, Hepcidin, and Transferrin Receptor Expression in the Placenta International journal of molecular sciences 2023-03-20 [PMID: 36982960]

Ng O. Iron, microbiota and colorectal cancer. Wien Med Wochenschr. 2016-08-30 [PMID: 27577249]

### Details:

This citation used the Alexa Fluor 647 version of this antibody.



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### **Products Related to NBP2-32945-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB100-92243PEP	TfR (Transferrin R) Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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