

## Product datasheet for **TA388998**

### CD71 (TFRC) Mouse Monoclonal Antibody [Clone ID: DF1513]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	DF1513
Applications:	IHC, WB
Recommended Dilution:	<b>WB:</b> 1:1000
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Preparation of KG1 cells
Specificity:	Specific for endogenous levels of the ~98 kDa CD71 protein.
Formulation:	PBS
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	98
Gene Name:	transferrin receptor
Database Link:	<a href="#">P02786</a>



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**Background:**

CD71, also known as the transferrin receptor (TfR1), is a transmembrane glycoprotein whose primary function is to mediate cellular uptake of iron from a plasma glycoprotein, transferrin. CD71 is a widely used marker for cell activation or proliferation of lymphocytes as transferrin receptor expression is undetectable in resting T and B lymphocytes, but increases significantly upon lymphocyte antigen activation (Galbraith, R.M., et al 1981). Rapidly proliferating cells and energy-requiring cells, like cancer cells, osteoclasts (Roodman, G.D., 2009), and activated lymphocytes (Wieland, E., et al, 2016) express high levels of CD71 due to increased iron demand. TfR1 is seen as an efficient drug delivery system for cancer patients as it can mediate extracellular transferrin conjugated molecules for treatment (Luria-Perez, R., et al, 2016).

**Synonyms:**

CD71; p90; T9; TfR; TfR1; TR; Trfr

**Note:**

Protein G purified culture supernatant.