

Product datasheet for **AM26239PU-N**

CD71 (TFRC) Mouse Monoclonal Antibody [Clone ID: 3B8 2A1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3B8 2A1
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	Immunohistochemistry on frozen sections: The typical starting working dilution is 1:10. Flow cytometry: The typical starting working dilution is 1:10. Immunoassay (detector). Immunoprecipitation. Western blot: The typical starting working dilution is 1:10. The antibody does not inhibit the biological activity of TfR1.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody detects Transferrin receptor 1.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	transferrin receptor
Database Link:	Entrez Gene 7037 Human P02786



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Background:

Human transferrin receptor 1 (TfR1), also designated CD71, is a homodimeric type II membrane glycoprotein of 90-95 kDa. This receptor binds two molecules of the serum iron-transport protein transferrin (Tf) and is internalised into endosomes that are acidified, resulting in the release of iron from Tf. TfR1 is not expressed on resting leukocytes but is upregulated on all proliferating cells upon activation, reflecting the iron dependence of proliferation. In tissues TfR1 is expressed on most dividing cells and on brain capillary endothelium. Expression of TfR1 is down regulated as a result of iron overload. TfR1 shares 45% identity with TfR2.

Synonyms:

TfR1, p90, Transferrin receptor protein 1