

## Product datasheet for **AM08050PU-N**

### Tfrc Rat Monoclonal Antibody [Clone ID: RI7217]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	RI7217
Applications:	FC, FN, IP
Recommended Dilution:	<b>Flow Cytometry.</b> (Ref.1-3,5) <b>In vivo and vitro Inhibition of Cell Proliferation.</b> (Ref.2) <b>Immunoprecipitation.</b> (Ref.3)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody recognises CD71/Transferrin Receptor, Mr 180-190 kDa (90-95 kDa under reducing conditions). RI7217 inhibits cell proliferation <i>in vitro</i> . (Ref.2)
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	transferrin receptor
Database Link:	<a href="#">Entrez Gene 22042 Mouse Q62351</a>



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**Background:**

CD71, a type II transmembrane glycoprotein expressed on the cell surface as a homodimer, is the Transferrin Receptor. It is essential for the growth of normal and neoplastic cells. (Ref.1,4) It is expressed at low levels on resting B and T lymphocytes but is upregulated during responses to antigens and mitogens, presumably reflecting the iron dependence of proliferation. (Ref.4) Its expression declines with maturation and differentiation. CD71 plays a critical role in cell proliferation by controlling the supply of iron, which is essential for many metabolic pathways, through the binding and endocytosis of transferrin, the major iron-carrying protein. It may also be involved in signal transduction via its association with the T cell receptor zeta chain.

**Synonyms:**

TfR1, p90, Transferrin receptor protein 1