

Product datasheet for **AM08050RP-N**

Tfrc Rat Monoclonal Antibody [Clone ID: RI7217]

Product data:

| | |
|-----------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | RI7217 |
| Applications: | FC |
| Recommended Dilution: | Flow Cytometry: < / = 0.2 µg/10e6 cells (Reported in literature) |
| 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). |
| Formulation: | PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin |
| Concentration: | lot specific |
| Conjugation: | PE |
| Storage: | Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | transferrin receptor |
| Database Link: | Entrez Gene 22042 Mouse Q62351 |



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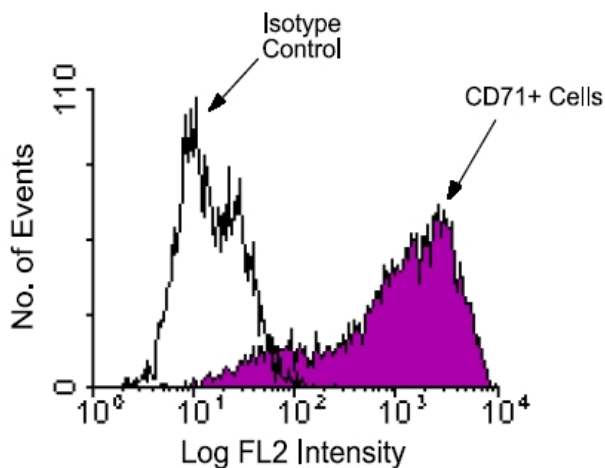
Background:

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. 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. 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.

Clone RI7217 inhibits cell proliferation *in vitro*.

Synonyms:

TfR1, p90, Transferrin receptor protein 1

Product images:

Immunofluorescent Staining: Fresh BALB/c spleen cells were activated by incubation for 72 hours with concanavalin A. Control cells were incubated in medium alone. At the end of 72 hours, the cells were harvested and stained with Rat anti-Mouse CD72-PE. Total cells were then gated and analyzed on a FACScan (TM) flow cytometer (BDIS, San Jose, CA). Amount Used: < / = 0.1 ug/10e6 cells.