

Product datasheet for **AM05575LE-N**

Tfrc Rat Monoclonal Antibody [Clone ID: 8D3]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | 8D3 |
| Applications: | FC, FN, IHC |
| Recommended Dilution: | Functional Assays. Dilute 1/100 - 1/200 Flow Cytometry: Use 10 µl of 1/100-1/200 diluted CD71 antibody to label 1 ⁰ cells. Immunohistochemistry on Frozen Sections. |
| Reactivity: | Mouse |
| Host: | Rat |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Mouse transformed endothelioma cell line t.end1. Spleen cells from immunised Lewis rats were fused with the cells of the mouse NSO myeloma cell line |
| Specificity: | This antibody recognises CD71, a 95kD cell surface protein that is otherwise known as transferrin receptor. This antibody recognises native, soluble and denatured forms of murine CD71. Binding of the 8D3 antibody to CD71 does not inhibit the proliferation of cell lines tested, and does not interfere with the uptake of iron into cells. The antibody has been used as a BBB transporter vector in mice and is suitable for studying CD71 expression, and iron uptake into different tissues, in the Mouse. |
| Formulation: | Phosphate buffered saline without preservatives Endotoxin Level: < 0.01 Eu/µg State: Low Endotoxin State: Liquid purified IgG fraction Stabilizer: None Preservative: None |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein G |
| Conjugation: | Unconjugated |



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| Storage: | Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Gene Name: | transferrin receptor |
| Database Link: | Entrez Gene 22042 Mouse Q62351 |
| Background: | CD71 is a major iron-binding protein, which plays a key role in the transport of iron into cells that require it. In mice, CD71 is widely expressed on a variety of cells, including Sertoli cells and cells which form the blood brain barrier (BBB) in the central nervous system. |
| Synonyms: | TfR1, p90, Transferrin receptor protein 1 |