

## Product datasheet for **SM3037P**

### CD71 (TFRC) Mouse Monoclonal Antibody [Clone ID: MEM-189]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-189
Applications:	FC, IP, WB
Recommended Dilution:	<b>Flow Cytometry:</b> 2 µg/ml. <b>Immunoprecipitation.</b> <b>Western Blot</b> (Non Reducing Conditions).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	KG1 human acute myelogenous leukaemia cell line
Specificity:	This antibody reacts with CD71 antigen (transferrin receptor), a 95 kDa type II homodimeric transmembrane glycoprotein expressed on activated B and lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes. It does not block binding of transferrin to the receptor.
Formulation:	TBS buffer pH 8.0 State: Purified State: Liquid purified IgG fraction (> 95% by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store 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 7037 Human P02786</a>



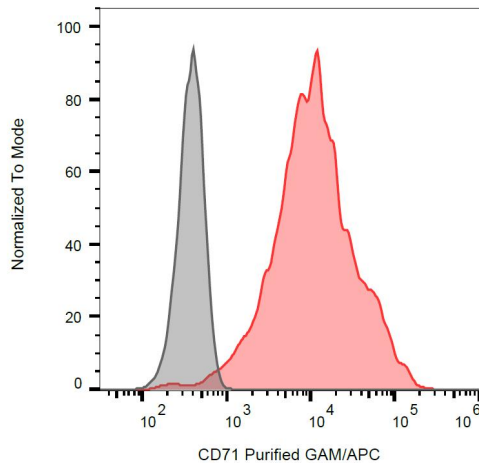
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**Background:**

CD71 (transferrin receptor) is a type II transmembrane glycoprotein expressed as homodimer in erythroid blood cell line and in activated leukocytes. Upon binding of holotransferrin (complex of transferrin and iron ions), CD71 is internalized by clathrin-mediated endocytosis. Acidification of endosomes by vesicular membrane proton pumps leads to dissociation of iron ions, whereas transferrin (apotransferrin) remains associated with CD71 and recycles to the cell surface, where it is released upon exposure to normal pH. CD71 is also involved in uptake of non-transferrin bound iron.

**Synonyms:**

TfR1, p90, Transferrin receptor protein 1

**Product images:**

Surface staining of CD71 in K562 cells with anti-CD71 (MEM-189) purified, GAM-APC.