

Product Datasheet

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Anti-Human CD71 [Clone T56/14] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C371
Clone:	T56/14
RRID:	AB_2829683
Isotype:	Mouse Mouse IgG1
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone T56/14 recognizes human CD71.

Antigen Distribution:

CD71 is expressed on most proliferating cells, activated lymphocytes, monocytes, macrophages, erythroid progenitors, and brain endothelium.

Background:

CD71 is a 95 kD type II homodimeric transmembrane glycoprotein. The function of CD71 is believed to be primarily nutritional. It plays a role in the control of cellular proliferation through facilitation of iron uptake by way of ferrotransferrin binding and the recycling of apotransferrin to the cell surface. Additionally, transferrin receptor is required for erythropoiesis and proper neurological development, and it has also been suggested that a growth signal might be generated by the transferrin/transferrin receptor interaction. Current genetic analysis indicates that the structural genes for transferrin receptor and for a melanoma-associated antigen (p97), and perhaps transferrin itself, each map to a common chromosome in humans. These proteins exhibit primary sequence homology with transferrin and have the ability to bind ferric iron. Therefore, it is thought that genetic rearrangements in this iron transport region may be associated with malignant transformation. Hence, anti-CD71 mAbs are thought to have therapeutic potential in cases of human leukemia & lymphoma.

Known Reactivity Species:

Human

Format:

in vivo GOLD™, Purified *in vivo* Functional Grade

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Country of Origin

USA

References

1. Pessin, JE. *et al.* (2003) *J Biol Chem.* **278**(12):10683-90. [Article Link](#)
2. Trowbridge, SI. *et al.* (1981) *Proc. Nat'l. Acad. Sci.* **78**:3039
3. Iacopetta, BJ. *et al.* (1983) *J. Histochem. Cytochem.* **31**:336

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