



Mouse Anti-Human CD71 Monoclonal antibody, clone OKT-9 (CABT-L4365)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The OKT-9 monoclonal antibody reacts with human CD71 also known as Transferrin receptor protein 1 (TfR1). CD71 is a 95 kDa type II transmembrane glycoprotein that is expressed by immature proliferating cells, reticulocytes, and erythroid precursors. CD71 influences cellular proliferation by mediating the uptake of iron via ferrotransferrin binding and the recycling of apotransferrin to the cell surface. Mice that are deficient in this receptor show impaired erythroid development and abnormal iron homeostasis. CD71 is a potential new target in cases of human leukemia and lymphoma.

Target	Human CD71
Immunogen	Human acute lymphoblastic leukemia cells
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human
Clone	OKT-9
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	FC, IHC-F
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Mice that are deficient in this receptor show impaired erythroid development and abnormal iron homeostasis. [provided by RefSeq, Mar 2010]
Keywords	TFRC;transferrin receptor;TR;TFR;p90;CD71;TFR1;Trfr;Mtvr1;Mtvr-1;AI195355;AI426448;AU015758;2610028K12Rik;E430033M20Rik;transferrin receptor protein 1;mammary tumor virus receptor 1;

GENE INFORMATION

Official Symbol	transferrin receptor
Synonyms	TFRC; transferrin receptor; TR; TFR; p90; CD71; TFR1; Trfr; Mtvr1; Mtvr-1; AI195355; AI426448; AU015758; 2610028K12Rik; E430033M20Rik; transferrin receptor protein 1; mammary tumor virus receptor 1;