



Rat Anti-Mouse CD24 monoclonal antibody, clone 40-G2 [Functional Grade] (DMAB18761F)

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

PRODUCT INFORMATION

Product Overview	This antibody is the Low Endotoxin/Azide Free format of DMAB18761
Immunogen	Mouse thymus or spleen
Isotype	IgG2c, K
Source/Host	Rat
Species Reactivity	Mouse
Clone	40-G2
Purification	Purified
Conjugate	Functional Grade
Applications	FC
Format	Liquid
Concentration	Lot specific
Size	500 µg
Buffer	Phosphate buffered saline, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Ship	Wet ice

BACKGROUND

Introduction

CD24 is expressed in B cells until their terminal differentiation into plasma cells. It has been used widely as a marker to fractionate different B-lineage differentiation stages. CD24 has been found on a variety of other hematopoietic and neural cell types and is now classified as a costimulatory molecule. The CD24 molecule, also known as HSA, is composed mostly of carbohydrate with a protein core of only 31-35 amino acids in the human and 27 amino acids in the mouse. CD24 is now included in the large group of phosphatidylinositol-anchored membrane proteins. Studies with purified CD24 applied to latex beads have demonstrated a self-binding property suggesting that the molecule is capable of promoting homotypic aggregation, binding, and cell adhesion. This is supported by earlier observations of the blockade of B cell lymphoblast aggregation with an anti-CD24 monoclonal antibody. Recent studies of murine CD24 have assigned a role for CD24 as a ligand for P-selectin, a calcium-dependent lectin.

Keywords

Heat stable antigen, HSA;CD24;Ly-52;nectadrin

GENE INFORMATION

Gene Name CD24

Entrez Gene ID [12484](#)

UniProt ID [P24807](#)