



# 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

<b>Product Overview</b>	This antibody is the Low Endotoxin/Azide Free format of DMAB18761
<b>Immunogen</b>	Mouse thymus or spleen
<b>Isotype</b>	IgG2c, κ
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	40-G2
<b>Purification</b>	Purified
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	FC
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	500 µg
<b>Buffer</b>	Phosphate buffered saline, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Ship</b>	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.
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Keywords	Heat stable antigen, HSA;CD24;Ly-52;nectadrin
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# GENE INFORMATION

Gene Name	CD24
Entrez Gene ID	<a href="#">12484</a>
UniProt ID	<a href="#">P24807</a>