



Rat Anti-Human CD44 Monoclonal antibody, clone IM7 (CABT-L4299)

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

PRODUCT INFORMATION

Product Overview	The IM7 monoclonal antibody reacts with human and mouse CD44 also known as Hermes, HCAM, and Pgp-1. CD44 is an 80-95 kDa glycoprotein that is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells.
Target	Mouse/Human CD44
Immunogen	Dexamethasone-induced myeloid leukemia M1 cells
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Human, Mouse
Clone	IM7
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD44 neutralization
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	The IM7 monoclonal antibody reacts with human and mouse CD44 also known as Hermes, HCAM, and Pgp-1. CD44 is an 80-95 kDa glycoprotein that is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As an adhesion molecule, CD44 participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, and hematopoiesis. CD44 is a receptor for hyaluronic acid and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Additionally, CD44 is involved in tumor metastasis and targeting of CD44 by antibodies has been shown to reduce the malignant activities of various neoplasms. Interestingly, high levels of the adhesion molecule CD44 on leukemic cells are essential to generate leukemia. The IM7 antibody has been shown to neutralize CD44 in vivo
Keywords	H-CAM

GENE INFORMATION

Official Symbol	CD44 molecule (Indian blood group)
Synonyms	H-CAM
References	Guidotti, L. G., et al. (2015). "Immunosurveillance of the liver by intravascular effector CD8(+) T cells." Cell 161(3): 486-500. PubMed;