



Mouse Anti-Mouse Nonclassical MHC Class I molecule Qa-1b Monoclonal antibody, clone 4C2.4A7.5H11 (CABT-L4443)

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

PRODUCT INFORMATION

Product Overview	The 4C2.4A7.5H11 monoclonal antibody reacts with the mouse non-classical MHC class I molecule Qa-1b. Qa-1b is the functional homolog of HLA-E in humans and is characterized by its limited polymorphisms and small peptide repertoire. Qa-1b interacts with NK cells through the CD94/NKG2 family of receptors. Upon binding, Qa-1b signals NK cells not to engage in cell lysis.
Target	Mouse Nonclassical MHC Class I molecule Qa-1b
Immunogen	Peptide corresponding to residues 161-179 of Qa-1b
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse
Clone	4C2.4A7.5H11
Purification	Protein A purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	WB, IF
Molecular Weight	150 kDa
Format	0.2 µM 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	MHC class I molecules are one of two primary classes of major histocompatibility complex (MHC) molecules (the other being MHC class II) and are found on the cell surface of all nucleated cells in the body.
Keywords	A 28;A 9;Antigen presenting molecule;Aw 24;Aw 68;CLASS I HISTOCOMPATIBILITY ANTIGEN;H2 K1;H2K;HLA A;HLA class I histocompatibility antigen A 1 alpha chain

GENE INFORMATION

Official Symbol	MHC Class I
Synonyms	A 28; A 9; Antigen presenting molecule; Aw 24; Aw 68; CLASS I HISTOCOMPATIBILITY ANTIGEN; H2 K1; H2K; HLA A; HLA class I histocompatibility antigen A 1 alpha chain
References	Davies, A., et al. (2004). "Infection-induced expansion of a MHC Class Ib-dependent intestinal intraepithelial gammadelta T cell subset." J Immunol 172(11): 6828-6837. PubMed;