

Datasheet for ABIN1177269
anti-H2-T23 antibody (AA 161-179)



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Overview

Quantity:	0.5 mg
Target:	H2-T23
Binding Specificity:	AA 161-179
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This H2-T23 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Western Blotting (WB), Blocking Reagent (BR)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Qa-1[b] aa. 161-179 Peptide
Clone:	6A8-6F10-1A6
Isotype:	IgG1 kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is ≤ 0.01 EU/µg (≤ 0.001 ng/µg) of protein as determined by the LAL assay.

Target Details

Target:	H2-T23
Alternative Name:	Qa-1 b (H2-T23 Products)
Background:	<p>The 6A8.6F10.1A6 monoclonal antibody reacts with the Qa-1[b] alloantigen, which is a nonclassical MHC class I (Class Ib) molecule encoded by the T23 gene of the H-2 complex. Qa-1 associates with beta2-microglobulin and is expressed at low levels on most leukocytes and many other cell types. Its level of cell-surface expression is upregulated by IFNgamma or specific peptides. Qa-1 is an oligomorphic molecule which presents a limited pool of peptides to T lymphocytes bearing alphabeta and gammadeltaTCR and binds to a large subpopulation of NK cells. In fact, Qa-1[b] is the ligand for CD94/NKG2A, CD94/NKG2C, and CD94/NKG2E receptors, which are expressed on NK cells. Furthermore, it has been reported that Qa-1 expressed on activated B lymphocytes is involved in immunoregulation by inducing T-cell-mediated suppression of antibody responses. The 6A8.6F10.1A6 mAb can detect Qa-1[b] on activated splenocytes from C57BL/6 and BALB/c mice (both Qa-1[b]), but not from A/j mice (Qa-1[a]), and it can block target cell recognition by CTLs specific for Qa-1-presented antigen.</p>
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	<p>Flow cytometry: Since this antigen is expressed at low density on the cell surface, it may be desirable to amplify staining by using a biotinylated second-step antibody (such as anti-mouse IgG1 mAb A85-1, Cat. No. 553441) followed by a bright third-step reagent such as PE Streptavidin (Cat. No. 554061).</p>
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered.
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Publications

- Product cited in: Vance, Jamieson, Raulet: "Recognition of the class Ib molecule Qa-1(b) by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells." in: **The Journal of experimental medicine**, Vol. 190, Issue 12, pp. 1801-12, (2000) ([PubMed](#)).
- Lo, Ong, Metcalf, Soloski: "T cell responses to Gram-negative intracellular bacterial pathogens: a role for CD8+ T cells in immunity to Salmonella infection and the involvement of MHC class Ib molecules." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 9, pp. 5398-406, (1999) ([PubMed](#)).
- Salcedo, Bousso, Ljunggren, Kourilsky, Abastado: "The Qa-1b molecule binds to a large subpopulation of murine NK cells." in: **European journal of immunology**, Vol. 28, Issue 12, pp. 4356-61, (1999) ([PubMed](#)).
- Sivakumar, Gunturi, Salcedo, Schatzle, Lai, Kurepa, Pitcher, Seaman, Lemonnier, Bennett, Forman, Kumar: "Cutting edge: expression of functional CD94/NKG2A inhibitory receptors on fetal NK1.1+Ly-49- cells: a possible mechanism of tolerance during NK cell development." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 12, pp. 6976-80, (1999) ([PubMed](#)).
- Vance, Kraft, Altman, Jensen, Raulet: "Mouse CD94/NKG2A is a natural killer cell receptor for the nonclassical major histocompatibility complex (MHC) class I molecule Qa-1(b)." in: **The Journal of experimental medicine**, Vol. 188, Issue 10, pp. 1841-8, (1999) ([PubMed](#)).
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