Datasheet for ABIN1176852

anti-ITGA4 antibody

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Overview

Quantity:	0.5 mg
Target:	ITGA4
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This ITGA4 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Blocking Reagent (BR)

Product Details

Brand:	BD Pharmingen™
Immunogen:	AKR/Cum mouse T lymphoma line TK1
Clone:	DATK32
Isotype:	IgG2a 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:	ITGA4

Target Details

Alternative Name:	LPAM-1 (ITGA4 Products)
Background:	The DATK32 antibody reacts with an epitope specific to the alpha4beta7 integrin heterodimer. alpha4beta7 (LPAM-1) is expressed on most mature lymphocytes and on small subsets of thymic and bone marrow cells. It interacts with several ligands, including VCAM-1 (CD106), fibronectin, and MAdCAM-1. DATK32 antibody induces alpha4beta7-dependent lymphocyte aggregation, but it inhibits other alpha4beta7- mediated lymphocyte adhesion events, including binding to fibronectin, MAdCAM-1, and VCAM-1 (CD106). Synonyms: Integrin alpha4beta7 complex
Pathways:	Integrin Complex

Application Details

Application Notes:	Flow cytometry: Because expression of LPAM-1 on peripheral lymphocytes is at very low density, we recommend amplification of the signal through the use of a biotinylated second-step antibody plus a bright third-step reagent, such as Streptavidin-PE (Cat. no. 554061), for detection of the antigen by flow cytometry. Other reported applications include in vitro blocking of adhesion, induction of cellular aggregation, and in vivo blocking of lymphocyte homing to mucosal sites.
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:	Andrew, Rott, Kilshaw, Butcher: "Distribution of alpha 4 beta 7 and alpha E beta 7 integrins on thymocytes, intestinal epithelial lymphocytes and peripheral lymphocytes." in: **European journal**

of immunology, Vol. 26, Issue 4, pp. 897-905, (1996) (PubMed).

Andrew, Berlin, Honda, Yoshino, Hamann, Holzmann, Kilshaw, Butcher: "Distinct but overlapping epitopes are involved in alpha 4 beta 7-mediated adhesion to vascular cell adhesion molecule-1, mucosal addressin-1, fibronectin, and lymphocyte aggregation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 153, Issue 9, pp. 3847-61, (1994) (PubMed).

Hamann, Andrew, Jablonski-Westrich, Holzmann, Butcher: "Role of alpha 4-integrins in lymphocyte homing to mucosal tissues in vivo." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 152, Issue 7, pp. 3282-93, (1994) (PubMed).

Berlin, Berg, Briskin, Andrew, Kilshaw, Holzmann, Weissman, Hamann, Butcher: "Alpha 4 beta 7 integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCAM-1." in: **Cell**, Vol. 74, Issue 1, pp. 185-95, (1993) (PubMed).

Kilshaw, Murant: "Expression and regulation of beta 7(beta p) integrins on mouse lymphocytes: relevance to the mucosal immune system." in: **European journal of immunology**, Vol. 21, Issue 10, pp. 2591-7, (1991) (PubMed).