Datasheet for ABIN967387

anti-NTAN1 antibody

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Overview

Quantity:	0.5 mg
Target:	NTAN1
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This NTAN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Blocking Reagent (BR), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Zinc-fixed Sections) (IHC (zinc))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Collagenase-dispersed BALB/c lymph node stroma
Clone:	MECA-79
Isotype:	IgM kappa
Specificity:	Carbohydrate Epitope
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

	4. Sodium azide is a reversible inhibitor of oxidative metabolism, therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	NTAN1
Alternative Name:	PNAd (NTAN1 Products)
Background:	The MECA-79 antibody reacts with sulfate-dependent carbohydrate epitopes of peripheral lymph node addressin (PNAd). The MECA-79-reactive antigen is closely associated with the carbohydrate ligands for L-selectin (eg, CD34, GlyCAM-1, MAdCAM-1), which are expressed on high endothelial venules (HEV) in lymphoid tissues and at sites of chronic inflammation. Cross-reactivity with human, sheep, cow, primate, and pig tissues has been observed. MECA-79 antibody inhibits L-selectin-dependent lymphocyte and platelet homing to lymph nodes in vivo, and in vitro adhesion to lymphoid tissue HEV and immobilized PNAd. Synonyms: CD62L Ligand

Application Details

Application Notes:	This antibody has been tested by immunohistochemical staining (IHC) of citrate-pretreated formalin-fixed paraffin-embedded sections (5 - 20 µg/ml) to assure specificity and reactivity. Other reported applications include IHC of acetone-fixed frozen sections, immunoprecipitation, western blot analysis, and in vitro and in vivo adhesion blocking.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

Jentho, Bodden, Schulz, Jung, Seidel, Schmeck, Bertrams: "microRNA-125a-3p is regulated by MyD88 in Legionella pneumophila infection and targets NTAN1." in: **PLoS ONE**, Vol. 12, Issue 4, pp. e0176204, (2017) (PubMed).

Binns, Whyte, Licence, Harrison, Tsang, Haskard, Robinson: "The role of E-selectin in lymphocyte and polymorphonuclear cell recruitment into cutaneous delayed hypersensitivity reactions in sensitized pigs." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 157, Issue 9, pp. 4094-9, (1996) (PubMed).

Diacovo, Puri, Warnock, Springer, von Andrian: "Platelet-mediated lymphocyte delivery to high endothelial venules." in: **Science (New York, N.Y.)**, Vol. 273, Issue 5272, pp. 252-5, (1996) (PubMed).

Malý, Thall, Petryniak, Rogers, Smith, Marks, Kelly, Gersten, Cheng, Saunders, Camper, Camphausen, Sullivan, Isogai, Hindsgaul, von Andrian, Lowe: "The alpha(1,3)fucosyltransferase Fuc-TVII controls leukocyte trafficking through an essential role in L-, E-, and P-selectin ligand biosynthesis." in: **Cell**, Vol. 86, Issue 4, pp. 643-53, (1996) (PubMed).

Puri, Finger, Gaudernack, Springer: "Sialomucin CD34 is the major L-selectin ligand in human tonsil high endothelial venules." in: **The Journal of cell biology**, Vol. 131, Issue 1, pp. 261-70, (1995) (PubMed).

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