Datasheet for ABIN2192211

anti-Endomucin antibody

1 Publication

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Overview

Quantity:	100 µg
Target:	Endomucin (EMCN)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP)

Product Details

Clone:	V-7C7-1
Cross-Reactivity (Details):	Cross reactivity: Human : No
Sterility:	0.2 µm filtered

Target Details

Target:	Endomucin (EMCN)
Alternative Name:	Endomucin (EMCN Products)
Background:	The monoclonal antibody V.7C7.1 recognizes endomucin, type I membrane protein of 248 amino acids (75 kDa) and shows no signicant homology to any known glycoprotein. As a typical mucin-like glycoprotein, endomucin has a high content of serine and threonine residues, suggesting strong O- glycosylation, the sensitivity to O-sialoglycoprotein endopeptidase indicates that endomucin is also a sialomucin. Endomucin is an endothelial-specific sialomucin.

Target Details

	It is a constitutively expressed endothelial cell surface protein that is found on all venules but is absent from high endothelial venule cells (HEV) of peripheral and mesenteric lymph nodes as well as Peyer's patches, the specialized site for most efficient lymphocyte trafficking. This could indicate an anti-adhesive function of endomucin, as demonstrated for other sialomucins. Mucosal addressin cell adhesion molecule 1 (MAdCAM-1) is another cell adhesion molecule that contains a mucin-like domain and is expressed on HEV in Peyer's patches, mesenteric lymph nodes and on venules in intestinal lamina propria. In the HEV of mesenteric lymph nodes, the mucin-like domain of a subpopulation of MAdCAM-1 Molecules contains sulfated carbohydrate side chains that interact with L-selectin. The presence of three putative protein kinase C phosphorylation sites in the cytoplasmic tail of endomucin indicates that endomucin has the capacity to be a signaling molecule. Mouse endomucin-IgG fusion protein Immunogen Endomucin-2, mucin-14, gastric cancer antigen Ga34 Aliases Rat IgG2a

Application Details

Application Notes:	It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.
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:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.
Expiry Date:	12 months

Publications

Product cited in:	Kuhn, Brachtendorf, Kurth, Sonntag, Samulowitz, Metze, Vestweber: "Expression of endomucin, a novel endothelial sialomucin, in normal and diseased human skin." in: **The Journal of**

investigative dermatology, Vol. 119, Issue 6, pp. 1388-93, (2002) (PubMed).