

## Product datasheet for **AM26308PU-N**

### Emcn Rat Monoclonal Antibody [Clone ID: V.7C7.1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	V.7C7.1
Applications:	IHC, IP, WB
Recommended Dilution:	<b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections.</b> <b>Immunoprecipitation.</b> <b>Flow Cytometry:</b> The typical starting working dilution is 1/50. Western blot: The typical starting working dilution is 1/50. Not suitable for <b>Functional assays</b> .
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse endomucin-IgG fusion protein
Specificity:	The monoclonal antibody V.7C7.1 recognizes endomucin, type I membrane protein of 248 amino acids (75 kDa) and shows no significant homology to any known glycoprotein.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	endomucin
Database Link:	<a href="#">Entrez Gene 59308 Mouse Q9R0H2</a>



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**Background:**

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. 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.

**Synonyms:**

EMCN, EMCN2, MUC14, Endomucin-2, Mucin-14, Gastric cancer antigen Ga34