

# Endomucin Monoclonal Antibody (eBioV.7C7 (V.7C7)), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioV.7C7 (V.7C7)
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784627

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	1 Publication

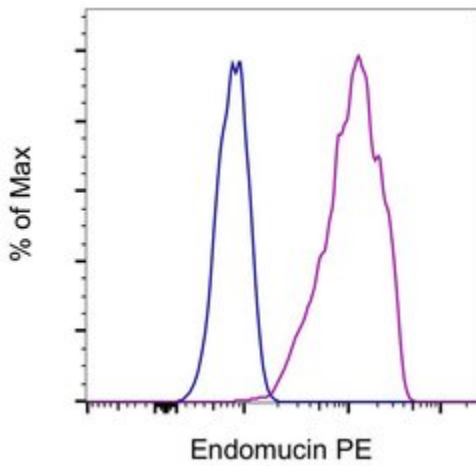
## Product Specific Information

**Description:** The eBioV.7C7 monoclonal antibody reacts with mouse endomucin, which was identified in a search for cell-surface expressed endothelial cell markers. Endomucin is a 75 kDa type I integral membrane protein, with similarities to the sialomucin family of proteins including extensive O-linked glycosylation. Endomucin is expressed on endothelial cells, however, an exception is the high endothelial venules (HEV) of secondary lymphoid organs. In addition, it has been demonstrated that endomucin is expressed on CD34-c-Kit+Sca-1+Lin- hematopoietic progenitors, and that these cells are capable of multi-lineage long-term reconstitution of the hematopoietic compartment.

**Applications Reported:** This eBioV.7C7 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This eBioV.7C7 antibody has been tested by flow cytometric analysis of bEnd.3 cells. This may be used at less than or equal to 1.0 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser



### Endomucin Antibody (12-5851-82) in Flow

bEnd.3 cells were stained with 0.5 µg of Rat IgG2a kappa Isotype Control, PE (Product # 12-4321-82) (blue histogram) or 0.5 µg of Endomucin Monoclonal Antibody, PE (purple histogram). Total viable cells were used for analysis.

## 1 Reference

### Flow Cytometry (1)

The bone & joint journal

#### Vascular endothelial growth factor pathway promotes osseointegration and CD31<sup>hi</sup>EMCN<sup>hi</sup> endothelium expansion in a mouse tibial implant model: an animal study.

"Published figure using Endomucin monoclonal antibody (Product # 12-5851-82) in Flow Cytometry"

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**Species**

Not Applicable

**Dilution**

Not Cited

**Year**

2019

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