abcam

ab106100

Anti-Endomucin antibody [V.7C7.1]

Anti-Endomucin antibody [V.7C7.1] (ab106100) is a rat monoclonal antibody detecting Endomucin in **Western Blot, Flow Cytometry, IP, IHC-P, IHC-Fr, IHC- Wmt, ICC/IF**. Suitable for **Mouse**.

- Over 50 publications

Key facts

Isotype	IgG2a
Host species	Rat
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 0.1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Protein within Mouse Emcn. The exact immunogen used to generate this antibody is proprietary information. Database link Q9R0H2
Clone number	V.7C7.1
Purification technique	Affinity purification Protein G
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	0.2 µm filtered solution

Reactivity data

IP

Expected

Species	Mouse

Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Expected

Species	Mouse
Dilution info	-
Notes	ab18450 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

WB

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

FuncS

Not recommended

Species	Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1 µg/mL
Notes	-

IHC - Wmt

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-Fr

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information EMCN

Function	Endothelial sialomucin, also called endomucin or mucin-like sialoglycoprotein, which interferes with the assembly of focal adhesion complexes and inhibits interaction between cells and the extracellular matrix.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Endomucin antibody [V.7C7.1] (ab106100) is a rat monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunohistochemistry (IHC - Wmt), Immunocytochemistry/immunofluorescence (ICC/IF) in Mouse samples.

Trusted by the scientific community
Anti-Endomucin [V.7C7.1] (ab106100) was first used in a scientific publication in 2011 and has been cited over 50 times in peer-reviewed journals.

Reviewed by scientists
Anti-Endomucin [V.7C7.1] (ab106100) has over 5 independent reviews from customers.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Endomucin also known as EMCN is a glycoprotein with a molecular mass of approximately 75 kDa. As part of the endothelial glycocalyx endomucin is expressed predominantly in endothelial cells lining blood vessels. This protein is involved in the prevention of leukocyte-endothelial cell adhesion and regulates cell surface exposure of adhesion molecules. Endomucin's expression can be detected in tissues with high vascularization such as the heart and lungs.
Biological function summary	Endomucin modulates the vascular permeability and the anti-inflammatory responses of endothelial tissues. It interacts with other proteins within the endothelial cell surface matrix forming a complex with proteoglycans and glycoproteins. Through these interactions endomucin plays an important role in maintaining endothelial barrier integrity and vascular homeostasis contributing to the regulation of angiogenesis and endothelial cell function.
Pathways	Endomucin engages in the regulation of the inflammatory and angiogenic pathways. It modulates the Notch signaling pathway which is key for maintaining vascular development and function. Additionally interactions with components like vascular endothelial growth factor (VEGF) highlight its involvement in angiogenic processes closely linking endomucin to pathways that govern cell proliferation and migration in endothelial tissues.
Associated diseases and disorders	Endomucin is significantly linked to inflammatory diseases such as atherosclerosis and cardiovascular abnormalities. In these contexts it interacts with adhesion molecules such as E-selectin influencing the progression of inflammation and vascular inflammation. Altered expression or dysfunction of endomucin could potentially contribute to these diseases underlining its relevance in vascular pathophysiology and endothelial health.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

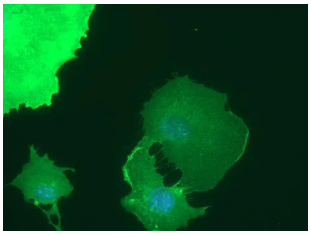
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image



Immunocytochemistry/ Immunofluorescence - Anti-Endomucin antibody [V.7C7.1] (ab106100)

Endomucin Immunocytochemistry/ Immunofluorescence staining using rat Anti-Endomucin antibody

Immuno fluorescence staining of bEND3 cells with ab106100 at a concentration of 1 µg/ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.