



Anti-mouse MMRN2 (#2063E2A11)

20180329BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	103-M512
Size:	100 µg
Lot. No.:	According to product label
Country of origin:	Germany

Preparation: Monoclonal antibodies were produced with the help of BALB/c mice using recombinant mouse full length recombinant MMRN2 (produced in HEK 293) as the immunizing antigen

Target Background

Synonyms:	Multimerin-2
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MMRN2 is an extracellular matrix (ECM) glycoprotein named Multimerin2 (MMRN2) previously known as EndoGlyx-1, which has been shown to be specifically expressed in endothelial cells of vascular origin. MMRN2 is found along the blood vessels in close contact with endothelial cells in normal and tumor vasculature and contributes to the maintenance of blood vessels' homeostasis by affecting the VEGF-A/VEGFR2 axis (Lorenzon et al., 2012). Neither proliferation nor apoptotic rate are affected. By preventing the interaction of VEGF-A with VEGFR1 and VEGFR2, MMRN2 reduces their activation and impairs the non-integrin dependent motility of endothelial cells. It is conceivable that MMRN2 attains a high endothelial cells pericellular concentration and thus competes for the binding of VEGF-A to its receptors. MMRN2 may thus represent a novel key homeostatic molecule indispensable for the maintenance of blood vessel integrity. This antibody has been successfully used in detection ELISA, immunohistochemistry and immunoblot assays. MMRN2 is highly specific for endothelium and stains all endothelial cells.

References

1. Leimaister C et al., Dev Biol 249: 204-218
2. Lorenzon E et al. Oncogene 31: 3136-3147, 2012
3. Colombatti A et al. Front. Immunol. 2: 93, 2012

Database References Antigen

Protein RefSeq:	NP_694767.3.
Uniprot ID:	A6H6E2
mRNA RefSeq:	NM_153127.3.

Product Specifications

Species reactivity	mouse
Clone/Ab feature	IgG, #2063E2A11
Cross reactivity	ND
Host	rat
Clonality	monoclonal
Purification	Protein G purified
Immunogen	mouse full length recombinant MMRN2
Formulation	lyophilized
Buffer	PBS

Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot:	Use at 2-10 µg/ml.
IF/IHC:	IF: Use at 2-10 µg/ml.
ELISA:	Detection: Use at 2-10 µg/ml.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications

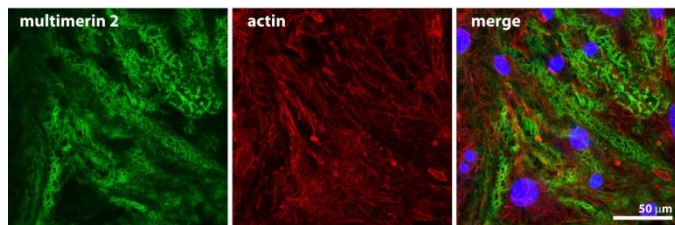


Fig. 1: Labeling of mouse brain endothelial cells (B-hend) with a rat anti-mouse Multimerin-2 (MMRN2) monoclonal antibody.

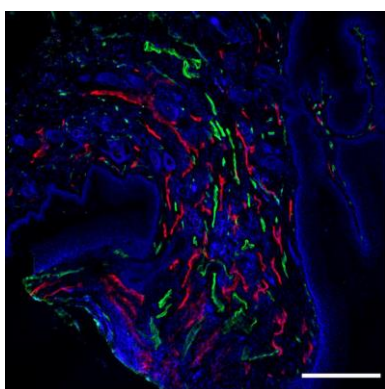


Fig. 2: Cryostat section of mouse skin papilloma. In red lymphatic vessels stained with anti LYVE-1; in green blood vessels stained with anti MMRN2 (clone 2063E2A11); in blue, nuclear staining. Scale bar: 300 μm

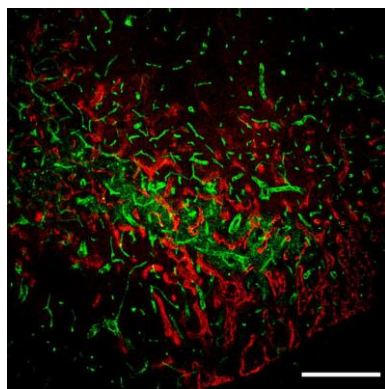


Fig. 3: Cryostat section of mouse lymph node. The lymphatic vessels positive for LYVE-1 are stained in red, the blood vessels positive for MMRN2 are stained in green. Scale bar: 300 μm