Mouse Endomucin Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4666

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Endomucin in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human Endomucin-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse Endomucin Glu21-Glu90 Accession # Q9R0H2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

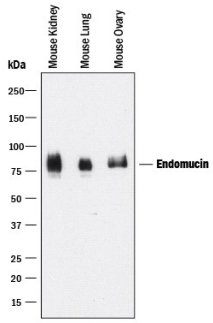
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below
Immunocytochemistry	5-15 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

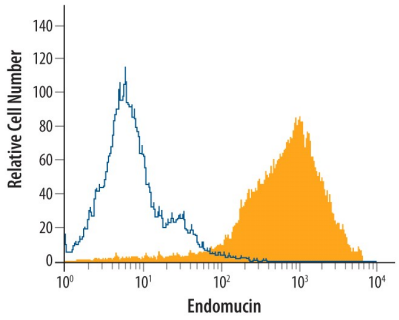
DATA

Western Blot



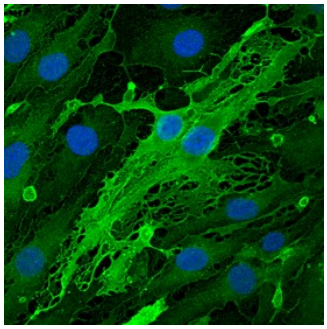
Detection of Mouse Endomucin by Western Blot. Western blot shows lysates of mouse kidney tissue, mouse lung tissue, and mouse ovary tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse Endomucin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4666) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Endomucin at approximately 75-85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of Endomucin in bEnd.3 Mouse Cell Line by Flow Cytometry. bEnd.3 mouse endothelioma cell line was stained with Goat Anti-Mouse Endomucin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4666, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).

Immunocytochemistry



Endomucin in bEnd.3 Mouse Cell Line. Endomucin was detected in immersion fixed bEnd.3 mouse endothelioma cell line using Goat Anti-Mouse Endomucin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4666) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Goat IgG Secondary Antibody (green; Catalog # NL003) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Endomucin (endothelial sialomucin; also Endomucin-1/2 and Mucin-14) is an 80-120 kDa glycoprotein member of the Endomucin family of proteins. It is expressed on endothelial cells and depending upon its glycosylation pattern, can serve as either a pro- or anti-adhesive molecule. Mouse Endomucin precursor is 261 amino acids in length. It is type I transmembrane protein that contains a 170 aa extracellular domain (ECD) (aa 21-190) and a 50 aa cytoplasmic region. Three splice variants exist in the ECD. One shows a deletion of aa 91-141, a second shows a one aa substitution for aa 91-129, and a third shows a one aa substitution for aa 129-142. Over aa 21-90, mouse Endomucin shares 60% and 30% aa identity with rat and human Endomucin, respectively.

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