



### Anti-human Endomucin

20140401BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-PA49</b>
Size:	200 µg
Lot. No.:	According to product label
Country of origin:	Germany

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>95%) recombinant human soluble Endomucin (Asn18 - Ser190) derived from E. coli.

### Target Background

<b>Synonyms:</b>	Endomucin-2, Gastric cancer antigen Ga34, Mucin-14
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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.

### References

1. Kinoshita M et al, FEBS Lett 499 (1-2): 121, 2001
2. Kuhn A et al, J Invest Dermatol 119:1388, 2002
3. Matsubara A et al, J Exp Medicine 202:1483, 2005
4. Brachtendorf G et al, Dev Dyn 222:410, 2001
5. Morgan SM et al, Blood 93:165, 1999
6. Samulowitz U et al, Am J Path 160:1669, 2002

### Database References Antigen

<b>Protein RefSeq:</b>	NP_001153166.1
<b>Uniprot ID:</b>	Q9ULC0
<b>mRNA RefSeq:</b>	NM_001159694.1

### Product Specifications

<b>Species reactivity</b>	human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	ND
<b>Host</b>	rabbit
<b>Clonality</b>	polyclonal
<b>Purification</b>	Protein A purified
<b>Immunogen</b>	Recombinant human soluble Endomucin (RT #S01-064)
<b>Formulation</b>	lyophilized
<b>Buffer</b>	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

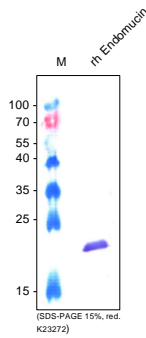
**Western Blot:** Use 1-5 µg/ml  
**IF/IHC:** Use at 1-5 µg/ml (Cryo)

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

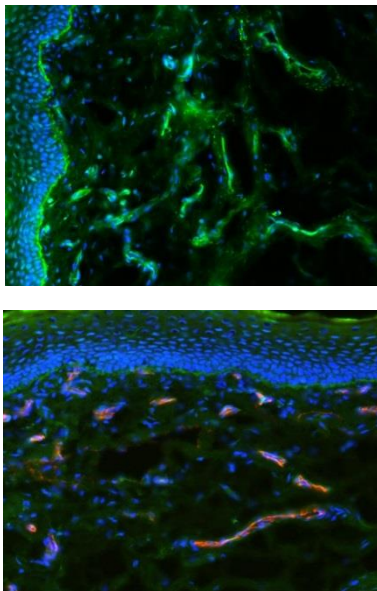


# Anti-human Endomucin

## Handling/Applications



**Figure 1:** Western Analysis of anti-human Endomucin. Sample was loaded in 15% SDS-polyacrylamide gel under reducing conditions. Lane 1: MWM (kDa); lane 2: rh sEndomucin.



**Figure 2:** Immunofluorescence staining (green) of cryo-sections of human foreskin (fixed 15 min in 4% PFA) with anti-human Endomucin (5µg/ml) [Cat# 102-PA49] and counter staining of nuclei with Dapi (upper panel) and double staining with anti-CD31 (lower panel).

The experiment was performed by the research group of Prof. Dr. J. Wiltling and Dr. K. Buttler, University Göttingen, Germany.