

## DESCRIPTION

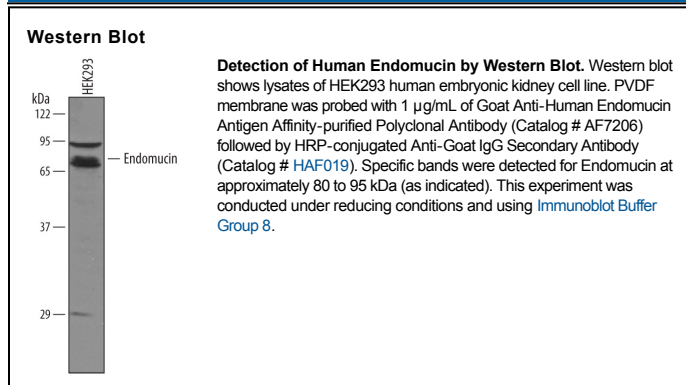
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Endomucin in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse Endomucin is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Endomucin Asn19-Gly139 Accession # Q9ULC0
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Endomucin (Endothelial sialomucin; also MUC-14, Endomucin-2 and Ga34) is an 85-115 kDa glycoprotein that belongs to no known family of molecules. It is expressed by primitive bone marrow stem cells, endothelial cells of both blood and lymphatic vessels, and select keratinocytes. Endomucin appears to create an environment that discourages leukocyte binding to vascular walls, and yet may also serve as an L-Selectin ligand. Mature human Endomucin is a 243 amino acid (aa) type I transmembrane glycoprotein (aa 19-261). It contains a 172 aa extracellular domain (ECD) (aa 19-190) plus a 50 aa cytoplasmic tail (aa 212-261). The ECD possesses a uteroglobin-like domain (aa 19-74) plus multiple sites for N- and O-linked glycosylation. There are potential splice variants that seem to parallel those in mouse. One shows a deletion of aa 140-222 and is likely soluble, while another possesses a Ser substitution for aa 126-139. Over aa 19-139, human Endomucin shares only 35% aa identity with mouse Endomucin.