

Datasheet for ABIN1589869  
**anti-ESM1 antibody**



[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	ESM1
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ESM1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Endocan/ESM-1 antibody
Immunogen:	Recombinant mouse ESM-1 (ABIN1589771)
Isotype:	IgG
Specificity:	Recombinant mouse ESM-1
Characteristics:	Chromosomal location: 13 D2.2, 13
Purification:	Protein A purified

## Target Details

Target:	ESM1
Alternative Name:	Endocan/ESM-1 ( <a href="#">ESM1 Products</a> )
Background:	Esm1, ESM-1, AV004503, 0610042H23Rik, Endocan (endothelial cell proteoglycan), also known

## Target Details

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as endothelial cell specific molecule 1 (ESM-1), is a 50 kDa monomeric, secreted, cysteine-rich proteoglycan identified initially in endothelial cells of the kidney and lung. Mouse Endocan is synthesized as a 184 amino acid (aa) precursor that contains a 21 aa signal sequence and a 20 kDa, 163 aa mature region. The N-terminal 2/3 of the molecule contains 18 cysteine residues and there are no potential N-linked glycosylation sites. Based on human Endocan, there are at least two potential O-linked glycosylation sites, one of which will likely be utilized on Ser at position # 136 of the mature molecule. The posttranslational modification is approximately 30 kDa in size. It consists of a single dermatan sulfate chain that contains 40 sulfated N-acetyl galactosamine with iduronate. This chain is suggested to bind HGF and contribute to HGF mitogenic activity. Mature mouse Endocan shares 96 % and 74 % aa identity with rat and human Endocan, respectively. In human, there is a potential for an alternate splice variant. It shows a deletion of aa 82-131, a range which would not remove the dermatan sulfate attachment site. It is not known if such a splice form exists in mouse. Endocan is expressed by endothelial cells, adipocytes, bronchial epithelium and distal renal tubular epithelium. It is upregulated by TNF $\alpha$  and VEGF, and is known to bind to LFA1 (integrin  $\alpha$ L $\beta$ 2) on the surface of PBMCs, blocking LFA1 interaction with ICAM1. Normal circulating levels of Endocan are approximately 1 ng/mL.

Gene ID:	71690
NCBI Accession:	<a href="#">NM_023612</a> , <a href="#">NP_076101</a>
UniProt:	<a href="#">Q9QYY7</a>
Pathways:	<a href="#">Growth Factor Binding</a>

## Application Details

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Application Notes:	Western Blot: use at 1-5 $\mu$ g/mL.
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.
Buffer:	PBS
Handling Advice:	Centrifuge vial prior to opening.

## Handling

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Storage: 4 °C,-20 °C

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Storage Comment: The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen aliquots.

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Expiry Date: 24 months