

## Datasheet for ABIN1589852 **anti-ESM1 antibody**



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### Overview

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

### Product Details

Purpose:	Endocan/ESM-1 antibody
Immunogen:	Recombinant human ESM-1 (ABIN1589766)
Isotype:	IgG
Specificity:	Recombinant human ESM-1
Characteristics:	Chromosomal location: 5q11.2
Purification:	Protein A purified

### Target Details

Target:	ESM1
Alternative Name:	Endocan/ESM-1 ( <a href="#">ESM1 Products</a> )
Background:	Endocan, ESM1, Endocan, also known as endothelial cell specific molecule1 (ESM1), is a

## Target Details

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secreted cysteine-rich dermatan sulfate (DS) proteoglycan primarily expressed by endothelial cells within the vascular capillary network in kidney and in the alveolar walls of the lung. Endocan expression has also been detected in different epithelia and in adipocytes. The expression of endocan is upregulated by TNF $\alpha$ , IL1 $\beta$ , or lipopolysaccharide and downregulated by IFN $\gamma$ . The human Endocan gene encodes a 184 amino acid (aa) residues precursor protein with a 19 aa hydrophobic signal peptide and a 165 aa mature region with 18 Cysteine residues. The DS chain is covalently attached to serine 137. Endocan has been shown to bind CD11a/CD18 integrin (also known as lymphocyte function associated antigen1, LFA1) on human lymphocytes, monocytes and Jurkat cells, inhibiting its binding to ICAM-1 and reducing LFA1-mediated leukocyte activation. Endocan binds via its DS chain to hepatocyte growth factor (HGF) to enhance HGF mitogenic activity. Genetically engineered cells overexpressing endocan has been shown to induce tumor formation, suggesting that Endocan may be involved in the pathophysiology of tumor growth in vivo. Circulating Endocan can be detected in the serum from healthy subjects. In patients with lung cancer or acute and severe sepsis, elevated Endocan concentrations have been reported.

Gene ID:	11082
NCBI Accession:	<a href="#">NM_007036</a> , <a href="#">NP_008967</a>
UniProt:	<a href="#">Q9NQ30</a>
Pathways:	<a href="#">Growth Factor Binding</a>

## Application Details

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Application Notes:	Western Blot: Use 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:	0.5X PBS, pH 7.2
Handling Advice:	Centrifuge vial prior to opening. Avoid repeated freeze-thaw cycles.
Storage:	4 $^{\circ}$ C, -20 $^{\circ}$ C

## Handling

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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