

Datasheet for ABIN5541433
anti-ESM1 antibody (AA 19-184)



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Overview

Quantity:	0.2 mg
Target:	ESM1
Binding Specificity:	AA 19-184
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ESM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (IF)

Product Details

Immunogen:	Highly pure (> 95%) recombinant human Endocan/ESM1 (Trp19-Arg184) derived from E. coli
Isotype:	IgG
Specificity:	This antibody detects Endocan / ESM1.
Purification:	Protein A chromatography

Target Details

Target:	ESM1
Alternative Name:	esm1 (ESM1 Products)
Background:	Endocan, also known as endothelial cell-specific molecule1 (ESM1), is a secreted cysteine-rich

Target Details

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 up-regulated by TNF α , IL1 β or lipopolysaccharide and down-regulated by IFN γ . The mouse 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 ICAM1 and reducing LFA1mediated 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.

Pathways: [Growth Factor Binding](#)

Application Details

Application Notes: Western blot: 1-5 μ g/mL. Immunofluorescence : 1/200. Immunohistochemistry on Frozen sections : 1:200.

Restrictions: For Research Use only

Handling

Buffer: 5 mM PBS, pH 7.2

Storage: 4 °C,-20 °C

Storage Comment: Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Expiry Date: 12 months