



Anti-ESM1 polyclonal antibody [Biotin] (DPABY-624)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Endocan, also known as Endothelial Cell-specific Molecule-1 (ESM-1) and IGFBP-rp6, is a secreted cysteine-rich dermatan sulfate proteoglycan. It is primarily expressed by endothelial cells within the vascular network of the kidney and in the alveolar walls of the lung. Endocan expression is upregulated by TNF-alpha, IL-1 beta and LPS, and downregulated by IFN-gamma. Endocan binds LFA-1 on human lymphocytes, monocytes and Jurkat cells, inhibiting its binding to ICAM-1 and reducing LFA-1-mediated leukocyte activation. Elevated circulating Endocan levels have been reported in patients with lung cancer and severe sepsis.
Specificity	Detects mouse Endocan/ESM-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.05% cross-reactivity with recombinant human Endocan is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Endocan/ESM-1 . Trp20-Arg184 Accession Number Q9QYY7
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

Preservative	None
Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 °C as supplied.</p> <p>1 month, 2 to 8 °C under sterile conditions after reconstitution.</p> <p>6 months, -20 to -70 °C under sterile conditions after reconstitution.</p>

GENE INFORMATION

Gene Name	Esm1 endothelial cell-specific molecule 1 [Mus musculus (house mouse)]
Official Symbol	ESM1
Synonyms	ESM1; endothelial cell-specific molecule 1; ESM-1; AV004503; 0610042H23Rik;
Entrez Gene ID	71690
Protein Refseq	NP_076101
UniProt ID	B9EJX9
Chromosome Location	13 D2.2; 13
Function	hepatocyte growth factor receptor binding; insulin-like growth factor binding; integrin binding;