

[Go to Product page](#)

Datasheet for ABIN7319627

ESAM Protein (AA 30-247) (His tag)

Overview

Quantity:	50 µg
Target:	ESAM
Protein Characteristics:	AA 30-247
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESAM protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ESAM Protein (aa 30-247, His Tag)
Sequence:	Gln30-Ala247
Characteristics:	Recombinant Human Endothelial Cell Adhesion Molecule is produced by our Mammalian expression system and the target gene encoding Gln30-Ala247 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	ESAM
Alternative Name:	ESAM (ESAM Products)

Target Details

Background:	<p>Background: Endothelial Cell Adhesion Molecule (ESAM) is a 55 kDa type I transmembrane glycoprotein member of the JAM family of immunoglobulin superfamily molecules. The 390 amino acid Human ESAM contains a 216 amino acid extracellular domain (ECD) with a V-type and a C2-type immunoglobulin (Ig) domain. ESAM is specifically expressed at endothelial tight junctions and on activated platelets and performs homophilic adhesion activity. The adaptor protein membrane-associated guanylate kinase MAGI-1 has been identified as an intracellular binding partner of ESAM. In addition, ESAM at endothelial tight junctions participates in the migration of neutrophils through the vessel wall, possibly by influencing endothelial cell contacts. ESAM-deficient mice were described with lowered angiogenic potential, and accordingly, overexpression of ESAM is closely associated with certain tumor growth and metastasis. ESAM is expressed on endothelial cells, activated platelets and megakaryocytes. The ECD of human and mouse ESAM share 69 % amino acid identity.</p> <p>Synonym: Endothelial Cell-Selective Adhesion Molecule, ESAM</p>
Molecular Weight:	24.79 kDa
UniProt:	Q96AP7

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>