

## Datasheet for ABIN1589731 **ESAM Protein (His tag)**



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### Overview

Quantity:	20 µg
Target:	ESAM
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESAM protein is labelled with His tag.

### Product Details

Purpose:	ESAM
Sequence:	ISLPGPLVTN LLRFLFLGLS ALAPPSRAQL QLHLPANRLQ AVEGGEVWLP AWYTLHGEVS SSQPWEVPFV MWFFKQKEKE DQVLSYINGV TTSKPGVSLV YSMPSRNLSL RLEGLQEKDS GPYSCSVNVQ DKQGKSRGHS IKTLELNVLV PPAPPSCRLQ GVPHVGANVT LSCQSPRSKP AVQYQWDRQL PSFQTFFAPA LDVIRGSLSL TNLSSSMAGV YVCKAHNEVG TAQCNVTLEV STGPGARSHH HHHH
Specificity:	Chromosomal location:11q24.2
Purity:	> 95 % by SDS-PAGE

### Target Details

Target:	ESAM
Alternative Name:	ESAM ( <a href="#">ESAM Products</a> )
Background:	Endothelial cell selective adhesion molecule (ESAM) is a 55 kDa type I transmembrane

## Target Details

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glycoprotein that belongs to the JAM family of immunoglobulin superfamily molecules. Human ESAM is synthesized as a 390 amino acid (aa) protein composed of a 29 aa signal peptide, a 216 aa extracellular region, a putative 26 aa transmembrane segment, and a 119 aa cytoplasmic domain. The extracellular region contains one V-type and one C2-type Ig domain and is involved in hemophilic adhesion. In the cytoplasmic domain, there is a docking site for the multifunctional adaptor protein MAGI1. The extracellular region of human ESAM shows 90 %, 74%, 69% and 67% aa identity with monkey, canine, mouse and rat extracellular ESAM, respectively. ESAM is expressed on endothelial cells, activated platelets and megakaryocytes, and can be found associated with cell to cell junctions. Whether ESAM is restricted to a particular junctional type is not clear. ESAM deficient mice have no defect in vascularization but do have reduced angiogenic potential. This may be due to a decreased migratory response to FGF2. Soluble ESAM is fused to a C-terminal His-tag (6x His).

Synonyms: ESAM, W117m

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Molecular Weight: 27.8 kDa

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Gene ID: 90952

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NCBI Accession: [NM\\_138961](#), [NP\\_620411](#)

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UniProt: [Q96AP7](#)

## Application Details

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Comment: Cytokines & Growth Factors

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Human ESAM should be reconstituted in sterile water to a concentration of 0.1 mg/mL. This solution can be diluted in water or other buffer solutions or stored at -20 °C.

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Buffer: PBS

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Storage: RT, 0 °C

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Storage Comment: The lyophilized human ESAM, though stable at room temperature, is best stored desiccated below 0°C.