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## Datasheet for ABIN7317973

**ESAM Protein**

## Overview

Quantity:	100 µg
Target:	ESAM
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Human ESAM Protein
Sequence:	Met 1-Ala 248
Characteristics:	The mature form of human ESAM (NP_620411.2) extracellular domain (Met 1-Ala 248) with five amino acids (DDDDK) at the C-terminus was expressed and purified.
Purity:	> 92 % 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 ( <a href="#">ESAM Products</a> )
Background:	Background: Endothelial cell-selective adhesion molecule (ESAM) is a member of JAM family of immunoglobulin superfamily and consists of one V-type and one C2-type immunoglobulin domain, as well as a hydrophobic signal sequence, a single transmembrane region, and a cytoplasmic domain. It is specifically expressed at endothelial tight junctions and on activated

## Target Details

platelets. ESAM at endothelial tight junctions participates in the migration of neutrophils through the vessel wall, possibly by influencing endothelial cell contacts. The adaptor protein membrane-associated guanylate kinase MAGI-1 has been identified as an intracellular binding partner of ESAM. Previous studies have indicated that ESAM regulates angiogenesis in the primary tumor growth and endothelial permeability. It suggest that ESAM has a redundant functional role in physiological angiogenesis but serves a unique and essential role in pathological angiogenic processes such as tumor growth.

Synonym: W117m

Molecular Weight: 24.5 kDa

NCBI Accession: [NP\\_620411](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 100 mM NaCl, 50 mM Tris, pH 7.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.