Recombinant Mouse ASAM Protein (His Tag)

Catalog No. PKSM040617

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description		
Synonyms	9030425E11Rik;ACAM;ASP5;AW557819	
Species	Mouse	
Expression Host	HEK293 Cells	
Sequence	Met 1-Met 232	
Accession	Q8R373-1	
Calculated Molecular Weight	25.6 kDa	
Observed molecular weight	33-36 kDa	
Tag	C-His	
Bioactivity	Measured by the ability of the immobilized protein to support the adhesion of the HUVEC human umbilical vein endothelial cell line. When 4 x 10^4 cells/well are added to mouse ASAM coated plates (30 µg/ml, 100 µl/well), approximately > 40 % will adhere after one hour at 37 °C.	
Properties		
Purity	> 97 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.	
Storage	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.	
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.	
Reconstitution	Please refer to the printed manual for detailed information.	
Dete		

Data

KDa	МК	R
116	-	
66.2	-	
45.0	-	
35.0	-	
25.0	-	
18.4	-	
14.4	-	

> 97 % as determined by reducing SDS-PAGE.

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Background

Adipocyte-specific adhesion molecule (ASAM), also known as ACAM and CLMP, is a type I transmembrane protein and a member of the CTX (cortical thymocyte marker in Xenopus) family within the immunoglobulin superfamily. ASAM protein is highly expressed in the small intestine and placenta, and is found at intermediate levels in the heart, skeletal muscle, colon, spleen, kidney, and lung, and appears in low levels in the liver and peripheral blood leukocytes as well. ASAM is a transmembrane component of tight junctions in epithelial cells that can mediate cell aggregation and regulate transepithelial resistance across polarized epithelial cells. In addition, its expression is strongly correlated with white adipose tissue (WAT) mass of human and rodents with obesity.

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