



Recombinant Protein Technical Manual

Recombinant Rat ASAM Protein (His Tag)(Active)

RPES0408

Product Data:

Product SKU: RPES0408

Size: 50µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: Q8K1G0

Protein Information:

Molecular Mass: 25.6 kDa

AP Molecular Mass: 37 kDa

Tag: C-His

Bio-activity: Measured by the ability of the immobilized protein to support the adhesion of MS cells. When 5 x 10E4 cells/well are added to Recombinant Rat ASAM coated plates (12.5 µg/mL with 100 µL/well), 35-70% cells will adhere after 1 hour incubation at 37°C.

Purity: > 85 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method

Storage: 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

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

Application:

Synonyms: ASAM;Clmp ,Acam

Immunogen Information:

Sequence: Met1-Met232

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.