



Recombinant Protein Technical Manual

Recombinant Human S100A2 Protein (Fc Tag)

RPES0800

Product Data:

Product SKU: RPES0800

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_005969.1

Protein Information:

Molecular Mass: 37.6 kDa

AP Molecular Mass: 40 kDa

Tag: N-Fc

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

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

Application:

Synonyms: Protein S100-A2; CAN19; Protein S00L; S100 calcium-binding protein A2; S100A2; S100L

Immunogen Information:

Sequence: Met 2-Pro98

Background:

The calcium-binding Protein S100A2 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 family genes are located as a cluster on chromosome 1q21, and S100 proteins consisting of at least 20 members are involved in the regulation of a number of cellular processes such as cell-cycle progression and cell differentiation. S100A2 was first detected in lung and kidney, and is mainly expressed in a subset of tissues and cells such as breast epithelia and liver. The S100A2 protein is a homodimer that undergoes a conformational change upon binding of calcium, and the active form functions in regulating cell proliferation and differentiation, gene transcription, and p53-dependent growth arrest and apoptosis. Accordingly, this protein is regarded as a putative tumor suppressor, and thus chromosomal rearrangements and reduced expression of S100A2 gene have been implicated in certain carcinomas.