



# Recombinant Protein Technical Manual

## Recombinant Human S100A2 Protein

RPES0170

### Product Data:

**Product SKU:** RPES0170

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P29034

### Protein Information:

**Molecular Mass:** 11.2 kDa

**AP Molecular Mass:** 10 kDa

**Tag:**

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of PBS, pH7.4.

**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:** Met1-Pro98

## Background:

The calcium-binding Protein S100-A2 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100-A2 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. 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.