

Recombinant Human S100A2 Protein

Cat.NO.: TP07337

3th Edition

Synonyms:CAN19;S100L

Description: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.

Form:PBS

Molecular Weight:11 kDa

Sequences:Met 2-Pro 98

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.