

# Recombinant Human S100 Calcium Binding Protein A2

**Cat. No.** S100A2-429H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human S100 Calcium Binding Protein A2 cloned from human cDNA, and expressed in <i>E.coli</i> . The protein consists of the human S100A2 (residues 1-98 swissprot accession P29034). MW = 11.7 kDa.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 1-98 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may have a tumor suppressor function. Chromosomal rearrangements and altered expression of this gene have been implicated in breast cancer. |
| <b>Purity</b>           | > 95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight <14 kDa).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Supplied As</b>      | 1mg at 1mg/ml in 50mM Tris, 2mM DTT pH 6.5. The concentration is calculated from the absorbance at 280nm (e280 = 3230 M <sup>-1</sup> cm <sup>-1</sup> ).                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Characteristics</b>     | Under the above described conditions, to avoid precipitation or aggregation, the product can be concentrated to a maximum of 1mM.                                                          |
| <b>Storage</b>             | -20° C. The protein is stable at 25 °C for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20° C. Avoid repeated freeze/thaw cycles. |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                            |
| <b>Gene Name</b>           | S100A2 S100 calcium binding protein A2 [ Homo sapiens ]                                                                                                                                    |
| <b>Synonyms</b>            | S100A2; S100 calcium binding protein A2; CAN19; S100L; MGC111539; OTTHUMP00000032968; OTTHUMP00000032969; S100 calcium-binding protein A2;Protein S-100L                                   |
| <b>Gene ID</b>             | 6273                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_005978                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_005969                                                                                                                                                                                  |
| <b>MIM</b>                 | 176993                                                                                                                                                                                     |
| <b>UniProt ID</b>          | P29034                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 1q21                                                                                                                                                                                       |
| <b>Function</b>            | calcium ion binding                                                                                                                                                                        |