

## Recombinant Human S100A2, His-tagged

**Cat. No.** S100A2-3725H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Total 108 AA. MW: 12.36 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | Protein S100-A2 is a protein that in humans is encoded by the S100A2 gene. 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>Form</b>             | Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | 95%, as determined by densitometric image analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reconstitution</b>   | Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | Western blotting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                 |                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quality Control Test</b>     | BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein                                                                                                                                                                                                                                                                            |
| <b>Sequences of amino acids</b> | MKHHHHHHAS MMCSSLEQAL AVLVTTFHKY SCQEGDKFKL SKGEMKELLH<br>KELPSFVGEK VDEEGLKKLM GSLDENSQQ VDFQEYAVFL ALITVMCNDF<br>FQGCPDRP                                                                                                                                                                                                                                      |
| <b>Storage</b>                  | Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C. |
| <b>Pathways</b>                 | Direct p53 effectors                                                                                                                                                                                                                                                                                                                                             |

## GENE INFORMATION

|                        |                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">S100A2</a> <a href="#">S100 calcium binding protein A2 [ Homo sapiens ]</a>                                                                                 |
| <b>Official Symbol</b> | <a href="#">S100A2</a>                                                                                                                                                  |
| <b>Synonyms</b>        | S100A2; S100 calcium binding protein A2; CAN19; S100L; MGC111539; protein S100-A2; OTTHUMP00000032967; S100 calcium-binding protein A2; Protein S100-A2; Protein S-100L |
| <b>Gene ID</b>         | <a href="#">6273</a>                                                                                                                                                    |
| <b>mRNA Refseq</b>     | <a href="#">NM_005978</a>                                                                                                                                               |
| <b>Protein Refseq</b>  | <a href="#">NP_005969</a>                                                                                                                                               |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                |                     |
|--------------------------------|---------------------|
| <b>MIM</b>                     | 176993              |
| <b>UniProt ID</b>              | P29034              |
| <b>Chromosome<br/>Location</b> | 1q21                |
| <b>Function</b>                | calcium ion binding |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA