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**Product Data Sheet**


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Product Name: SCGB2A2 Human, HEK

Cat. No.: GP24498

Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | HEK 293.                |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Mammaglobin-A; Mammaglobin-1; Secretoglobin family 2A member 2; SCGB2A2; MGB1; UGB2; MGC71974.  |                    |                         |
| Amino Acid Sequence | <p>GSGCPLLENV ISKTINPQVS KTEYKELLQE FIDDNATTNA IDELKECFLN<br/> QTDETLNVE VFMQLIYDSS LCDLF KLENL YFQGPKSCDK THTCPPCPAP<br/> ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV<br/> EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI<br/> EKTISKAKGQ PREPQVYTLPSRDELTKNQ VSLTCLVKGF YPSDIAVEWE<br/> SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL<br/> HNHYTQKSLS LSPGKHHHHH H.</p> |                    |                         |
| Formulation         | SCGB2A2 filtered (0.4µm) solution at a concentration of 0.4mg/ml in PBS buffer pH 7.5 and 5% (w/v) Threalose.   |                    |                         |

**Introduction**

The mammaglobin gene was first identified using a differential screening approach directed at the isolation of novel, human breast cancer-associated genes. Mammaglobin encodes a 10 kDa glycoprotein and is distantly related to a family of epithelial secretory proteins that includes rat estramustine-binding protein/prostatein and human Clara cell 10 kDa protein (CC10)/uteroglobin. Mammaglobin, a mammary-specific member of the uteroglobin family, is known to be overexpressed in human breast cancer. Studies suggest that mammaglobin is one of the first relatively mammary-specific and mammary-sensitive markers (85%). Mammaglobin may be valuable used in a panel with BRST-2 (GCDFP-15) and ER in evaluating tumors of unknown primary sites. SCGB2A2 (the mammaglobin gene) is located on chromosome 11, at locus 11q13. SCGB2A2 is member of the secretoglobin superfamily of which is a group of small dimeric secreted and sometimes glycosylated proteins. Expressed mainly in mucosa, secretoglobins appear to

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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be involved in cell signalling, immune response, chemotaxis, and might also serve as transporters for steroid hormones in humans.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Mammaglobin-A Human Recombinant (Fc Chimera) produced in HEK cells is a single, glycosylated, polypeptide chain (Gly19-Phe93) containing a total of 321 amino acids, having a calculated molecular mass of 36.3kDa. The SCGB2A2 protein is fused to a 2 aa C-terminal linker, a 6 aa C-terminal His tag, a 7 aa TEV site and a 231 aa Human IgG1 fragment (Pro100-Lys330).

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