

## Recombinant Human FOSB, GST-tagged, 113-151aa

Cat. No. FOSB-1303H    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product overview | Recombinant Human FOSB (a.a. 113-151) expressed in <i>E.coli</i> shows a 32 kDa SDS-PAGE (Including GST). The FOS-B is purified by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Description      | Fos B encodes a nuclear protein of 338 amino acids which has 70% homology with c-Fos, exhibits similar kinetics of expression as c-Fos and forms heterodimers with both c-Jun and Jun B which bind to TRE DNA response elements. Functional homologs of c-Fos and Fos- B include Fra-1 and Fra-2 genes. The 4 members of Fos gene family are: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins which can dimerize with proteins of the JUN family, thus forming the transcription factor complex AP-1. The FOS proteins act as regulators of cell proliferation, differentiation, and transformation. Alternatively spliced transcript variants encoding different isoforms exist for Fos B. |
| Stability        | Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### GENE INFORMATION

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | FOSB FBJ murine osteosarcoma viral oncogene homolog B[ Homo sapiens ]                                                                                                                                              |
| <b>Synonyms</b>            | FOSB; FBJ murine osteosarcoma viral oncogene homolog B; AP-1; G0S3; GOS3; GOSB; MGC42291; DKFZp686C0818; oncogene FOS-B; activator protein 1; activator protein 1; Protein fosB; G0/G1 switch regulatory protein 3 |
| <b>Gene ID</b>             | 2354                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_001114171                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_001107643                                                                                                                                                                                                       |
| <b>MIM</b>                 | 164772                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | P53539                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 19q13.3                                                                                                                                                                                                            |
| <b>Function</b>            | protein dimerization activity; sequence-specific DNA binding; transcription factor activity; transcription factor binding                                                                                          |