

## Recombinant Mouse Sh3pxd2b Protein, Myc/DDK-tagged

**Cat. No.** Sh3pxd2b-5850M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length SH3 and PX domains 2B (Sh3pxd2b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Adapter protein involved in invadopodia and podosome formation and extracellular matrix degradation. Binds matrix metalloproteinases (ADAMs), NADPH oxidases (NOXs) and phosphoinositides. Acts as an organizer protein that allows NOX1- or NOX3-dependent reactive oxygen species (ROS) generation and ROS localization. Plays a role in mitotic clonal expansion during the immediate early stage of adipocyte differentiation. |
| <b>Molecular Mass</b>   | 101.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                   |

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

|                        |                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Sh3pxd2b SH3 and PX domains 2B [ <i>Mus musculus</i> (house mouse) ]                                                                                                                                            |
| <b>Official Symbol</b> | Sh3pxd2b                                                                                                                                                                                                        |
| <b>Synonyms</b>        | Sh3pxd2b; SH3 and PX domains 2B; Tks; Fad4; TSK4; Tks4; fad49; G431001E03Rik; SH3 and PX domain-containing protein 2B; factor for adipocyte differentiation 49; tyrosine kinase substrate with four SH3 domains |
| <b>Gene ID</b>         | 268396                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_177364                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_796338                                                                                                                                                                                                       |
| <b>UniProt ID</b>      | A2AAY5                                                                                                                                                                                                          |

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