

## Recombinant Mouse Prag1 Protein, Myc/DDK-tagged

**Cat. No.** Prag1-5094M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length PEAK1 related kinase activating pseudokinase 1 (Prag1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Catalytically inactive protein kinase that acts as a scaffold protein. Functions as an effector of the small GTPase RND2, which stimulates RhoA activity and inhibits NGF-induced neurite outgrowth. Promotes Src family kinase (SFK) signaling by regulating the subcellular localization of CSK, a negative regulator of these kinases, leading to the regulation of cell morphology and motility by a CSK-dependent mechanism. Acts as a critical coactivator of Notch signaling. |
| <b>Molecular Mass</b>   | 148.4 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>       | Prag1 PEAK1 related kinase activating pseudokinase 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | Prag1                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | Prag1; PEAK1 related kinase activating pseudokinase 1; NA; NACK; Sgk223; D8Ertd82; D8Ertd82e; mFLJ00269; 9830148H23; inactive tyrosine-protein kinase PRAG1; notch activation complex kinase; pragmin; sugen kinase 223; tyrosine-protein kinase PRAG1; tyrosine-protein kinase SgK223; EC 2.7.10.2 |
| <b>Gene ID</b>         | 244418                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_172911                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_766499                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>      | Q571I4                                                                                                                                                                                                                                                                                              |

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