

## JOSD1 Protein, Human (GST)

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|-------------------|---|
| Cat. No.:         | HY-P701475  |
| Synonyms:         | JOSD1; Josephin-1; Josephin domain-containing protein 1 |
| Species:          | Human   |
| Source:           | E. coli   |
| Accession:        | Q15040 (S2-V202)  |
| Gene ID:          | 9929  |
| Molecular Weight: |   |

### PROPERTIES

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|---------------------|--|
| Appearance          | Solution.  |
| Formulation         | Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 500 mM NaCl, 5% glycerol, 1 mM DTT.  |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.  |
| Reconstitution      | Please use rapid thawing with running water to thaw the protein.   |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping            | Shipping with dry ice.   |

### DESCRIPTION

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| Background | JOSD1 Protein, a versatile player in ubiquitin dynamics, exhibits deubiquitinase activity by cleaving monoubiquitinated probes in vitro. Moreover, when ubiquitinated itself, JOSD1 can cleave both 'Lys-63'-linked and 'Lys-48'-linked poly-ubiquitin chains in vitro, suggesting a potential role as a deubiquitinating enzyme. Beyond its catalytic functions, JOSD1 is implicated in cellular processes, influencing macropinocytosis positively and concurrently suppressing clathrin- and caveolae-mediated endocytosis. Notably, JOSD1 appears to contribute to membrane dynamics and cell motility independently of its enzymatic activity, highlighting its multifaceted role in orchestrating cellular responses and homeostasis. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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