

14-3-3 beta Protein, Human (GST)

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| Cat. No.: | HY-P74439 |
| Synonyms: | KCIP-1; 14-3-3 protein beta/alpha; GW128; Protein 1054; YWHAB |
| Species: | Human |
| Source: | E. coli |
| Accession: | P31946 (M1-N246) |
| Gene ID: | 7529 |
| Molecular Weight: | Approximately 52 kDa |

PROPERTIES

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| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 150 mM NaCl, 0.1 mM DTT, 10% Glycerol, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/ μ g, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | The 14-3-3 beta protein serves as an adapter implicated in the regulation of a wide spectrum of both general and specialized signaling pathways. Recognizing phosphoserine or phosphothreonine motifs, it binds to numerous partners, modulating the activity of the binding partner upon interaction. It acts as a negative regulator of osteogenesis by blocking the nuclear translocation of the phosphorylated form of SRPK2, counteracting its stimulatory effect on cyclin D1 expression, and thereby preventing neuronal apoptosis induced by SRPK2. Additionally, 14-3-3 beta negatively regulates signaling cascades that activate MAP kinases through AKAP13. Existing as a homodimer, it interacts with various proteins, including SAMSN1, PRKCE, AKAP13, SSH1, TORC2/CRTC2, ABL1, ROR2, GAB2, YAP1, SRPK2, PKA-phosphorylated AANAT, MYO1C, SIRT2, DAPK2, PI4KB, TBC1D22A, TBC1D22B, SOS1, YWHAB, SLITRK1, SYNPO2, RIPOR2, MARK2, MARK3, TESK1, MEFV, HDAC4, and ADAM22. These interactions highlight the diverse roles of 14-3-3 beta in various cellular processes and signaling pathways. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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