

## 14-3-3 beta Protein, Cynomolgus

Cat. No.:	HY-P75550
Synonyms:	KCIP-1; 14-3-3 protein beta/alpha; GW128; Protein 1054; YWHAB
Species:	Cynomolgus
Source:	E. coli
Accession:	Q4R572-2 (M1-N244)
Gene ID:	101926442
Molecular Weight:	Approximately 30 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, 10% Glycerol, 0.5 mM DTT, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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

Background	<p>14-3-3 beta protein serves as an adapter involved in the regulation of diverse signaling pathways, engaging with numerous partners through recognition of phosphoserine or phosphothreonine motifs. The resulting interactions typically modulate the activity of the binding partner. Functioning as a negative regulator of osteogenesis, it impedes the nuclear translocation of the phosphorylated form of SRPK2, counteracting SRPK2's stimulatory effect on cyclin D1 expression and thereby preventing neuronal apoptosis. Additionally, 14-3-3 beta negatively regulates signaling cascades that activate MAP kinases via AKAP13. Existing as a homodimer, it interacts with various proteins, including SAMS1, PRKCE, AKAP13, SSH1, TORC2/CRTC2, ABL1, ROR2, GAB2, YAP1, SRPK2, AANAT, MYO1C, SIRT2, DAPK2, PI4KB, TBC1D22A, TBC1D22B, SOS1, SLITRK1, SYNPO2, RIPOR2, MARK2, MARK3, TESK1, MEFV, HDAC4, and ADAM22, participating in diverse cellular processes.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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