



Human 14-3-3 Sigma

Product Data Sheet

For Research Use Only, Not for use in diagnostic procedures

Human 14-3-3 Sigma

Human, recombinant protein expressed in *E. coli*.

Cat# CY-R2144

Amount: 100 µg (1.48 µg/µl)

Lot:

Introduction:

14-3-3 protein family is highly conserved from plants to mammals and ubiquitously expressed cellular proteins. In mammals, there are seven isoforms encoded by a distinct gene (Beta, Epsilon, Gamma, Sigma, Eta, Tau and Zeta). More than 200 target proteins of the 14-3-3 protein family have been identified. Interactions of 14-3-3 proteins and the target proteins are dependent on phosphorylation of serine/threonine residue on the target proteins with some exceptions. 14-3-3 is deeply and widely involved in mitogenic signaling, cell cycle regulation and cell death/survival, suggesting the family plays important role in human neoplastic and neurological diseases.

Product Description:

Full length of human 14-3-3 Sigma, containing an N-terminal GST tag, expressed in *E. coli*. and purified by GSH agarose chromatography.

Gene Information:

The gene accession number is AF029082.

Gene Aliases:

Stratifin

Formulation:

Recombinant human 14-3-3 Sigma is supplied frozen in phosphate buffered saline (PBS) containing 50 % glycerol.

Molecular Weight:

97 kDa--

66 kDa--

45 kDa--

31 kDa--

Coomassie blue stain

Recombinant human 14-3-3 Sigma demonstrates approximately 54 kDa band by SDS-PAGE analysis.



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Storage:

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability:

Unopened vial at -70 °C, for 1 year after delivery.

References:

1. Mackintosh C. Dynamic interactions between 14-3-3 proteins and phosphoproteins regulate diverse cellular processes. *Biochem J.* 2004 Jul 15;381(Pt 2):329-42.
2. Dougherty MK, Morrison DK. Unlocking the code of 14-3-3. *J Cell Sci.* 2004 Apr 15;117(Pt 10):1875-84.
3. Hermeking H. The 14-3-3 cancer connection. *Nat Rev Cancer.* 2003 Dec;3(12):931-43.
4. Berg D, Holzmann C, Riess O. 14-3-3 proteins in the nervous system. *Nat Rev Neurosci.* 2003 Sep;4(9):752-62.

Related Products:

- * Human 14-3-3 Beta: Cat# CY-R2141
- * Human 14-3-3 Epsilon: Cat# CY-R2142
- * Human 14-3-3 Gamma: Cat# CY-R2143
- * Human 14-3-3 Sigma: CY-R2144
- * Human 14-3-3 Eta: Cat# CY-R2145
- * Human 14-3-3 Tau: Cat# CY-R2146
- * Human 14-3-3 Zeta: Cat# CY-R2147

- * CircuLex 14-3-3 Gamma ELISA Kit: Cat# CY-8082

PRODUCED BY

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