

Recombinant Cynomolgus YWHAB

Catalog Number: 90022-CNCE



General Information

Gene Name Synonym:

YWHAB

Protein Construction:

A DNA sequence encoding the mature form of Cynomolgus (*Macaca fascicularis*) YWHAB (Q4R572-2) (Met 2-Asn 244) was expressed and purified, with an initial Met.

Source: Cynomolgus

Expression Host: *E.coli*

QC Testing

Purity: > 90% as determined by SDS-PAGE.

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met 1

Molecular Mass:

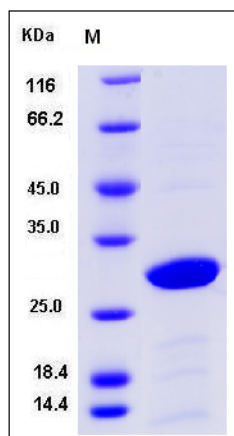
The recombinant Cynomolgus YWHAB consists of 246 amino acids and has a calculated molecular mass of 27.8 KDa. It migrates as an approximately 30 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from 0.2µm filtered solution of PBS, 10%glycerol, 0.5mM DTT, pH7.5

Normally 5% - 8% trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

SDS-PAGE:



Usage Guide

Storage:

Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide (YWHAB), also known as 14-3-3 protein beta / alpha and protein kinase C inhibitor protein 1 (KCIP1), is a member of the 14-3-3 proteins which are a family of conserved regulatory molecules expressed in all eukaryotic cells. The name 14-3-3 refers to the particular elution and migration pattern of these proteins on DEAE-cellulose chromatography and starch-gel electrophoresis. The 14-3-3 proteins eluted in the 14th fraction of bovine brain homogenate and were found on positions 3.3 of subsequent electrophoresis. There are seven genes that encode 14-3-3s in most mammals. 14-3-3 proteins have been identified as adapter proteins implicated in the regulation of a large spectrum of both general and specialized signaling pathway. More than 100 signaling proteins have been reported as 14-3-3 ligands including kinases, phosphatases, and transmembrane receptors, and the binding generally results in the modulation of the activity of the binding partner. YWHAB has been reported to interact with SSH1, TORC2/CRTC2, ABL1, ROR2, GAB2, and thus is involved in the related processes, such as apoptosis. In addition, YWHAB may serve as a negative regulator of osteogenesis.

References

1. Mhaweche P. et al., 2005, Cell Res. 15: 228-36.
2. Screatton R A. et al., 2004, Cell.119: 61-74.
3. Brummer T. et al., 2008, EMBO J. 27: 2305-16.
4. Yang X. et al., 2006, Proc Natl Acad Sci.103: 17237-42.
5. Liu Y. et al., 2007, Mol Endocrinol. 21: 3050-61.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>