

Human Survivin / BIRC5 / API4 Protein



Sino Biological
Biological Solution Specialist

Catalog Number: 10356-HNCE

General Information

Gene Name Synonym:

API4; BIRC5; EPR-1; IAP4

Protein Construction:

A DNA sequence encoding the human BIRC5 (NP_001159.2) (Met1-Asp142) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % 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: Gly

Molecular Mass:

The recombinant human BIRC5 consists of 144 amino acids and predicts a molecular mass of 16.5 KDa. It migrates as an approximately 19 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 20% glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

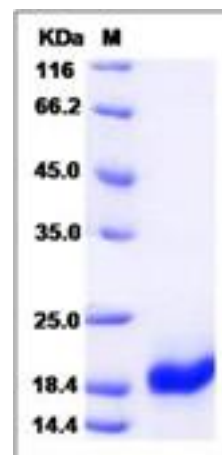
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

BIRC5, also known as Survivin and EPR-1, is a member of the IAP family. IAP family members usually contain multiple baculovirus IAP repeat (BIR) domains, but BIRC5 has only a single BIR domain. It is expressed cell cycle-dependently and highly expressed at mitosis. As a multitasking protein, BIRC5 has dual roles in promoting cell proliferation and preventing apoptosis. Survivin is a component of a chromosome passage protein complex (CPC) which is essential for chromosome alignment and segregation during mitosis and cytokinesis. Survivin acts as an important regulator of the localization of this complex. It may counteract a default induction of apoptosis in G2/M phase.

References

1. Altieri DC. 1994, J Biol Chem. 269 (5): 3139-42.
2. Bouchard BA. et al., 2002, Thromb Haemost. 86 (4): 1133-5.
3. Yao XQ. et al., 2004, World J Gastroenterol. 10 (9): 1262-7.

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