



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human HSF2BP Protein
Catalog Number: hRP-0485
Manufacturer: LD Biopharma, Inc.

Introduction

HSF2 binding protein (HSF2BP) associates with HSF2, which binds to heat shock element (HSE) constitutively during differentiation, development and spermatogenesis. The interaction occurs between the trimerization domain of HSF2 and the amino terminal hydrophilic region of HSF2BP that comprises two leucine zipper motifs. HSF2BP may therefore be involved in modulating HSF2 activation.

Full length human HSF2BP gene was constructed with N-terminal 17 aa (T7) tag. This protein was expressed in *E. coli* as inclusion bodies, refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: HSF2BP
Accession Number: NP_008962
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Yoshima, T., et al., *Novel testis-specific protein that interacts with heat shock factor 2*.
Gene 214 (1-2), 139-146 (1998)

Hu, Y.H., et al., *Cell array-based intracellular localization screening reveals novel*



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functional features of human chromosome 21 proteins. BMC Genomics 7, 155 (2006)

Applications

1. May be used for in vitro HSF2BP mediated cell differentiation pathway regulation study for germ cell by intracellular delivery of this protein with ProFectin Reagent.
2. May be used for mapping HSF2BP protein-protein interaction.
3. May be used as specific substrate protein for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.
4. Potential tumor biomarker protein.
5. May be used for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGEFGSGEAGAAEEACRHMGTKEEFVKVRKKDLERLTTEVMQIRDFLPRILNG
EVLESFQKLKIVEKNLERKEQELEQLKMDCEHFKARLETVQADNIREKKEKLALRQQLNEAKQQ
LLQQAEYCTEMGAAACTLLWGVSSSEEVKAILGGDKALKFFSITGQTMESFVKSLDGDVQELD
SDESQFVFALAGIVTNVAAIACGREFLVNSSRVLLDTILQLLGLKPGQCTKLKVLMLMSLYNV
SINLKGLKYISESPGFIPLLWLLSDPDAEVCLHVLRLVQSVVLEPEVFVSKSASEFRSSLPLQR
ILAMSKSRNPRLQTAAQELLEDLRTLEHNV