Recombinant human 14-3-3 sigma protein

Catalog Number: ATGP0435

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-248aa

UniProt No.
P31947

NCBI Accession No.
NP_006133

Alternative Names
stratifin, Epithelial cell marker protein 1, HME1, YWHAS, SFN, 14-3-3 sigma

PRODUCT SPECIFICATION

Molecular Weight
27.7 kDa (248aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50mM NaCl, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
14-3-3 sigma, also known as Stratifin (SFN), belong to the 14-3-3 family. The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. 14-3-3 sigma was identified as an epithelial cell marker and appeared to function as a tumor suppressor whose expression can be down regulated via methylation. Loss of 14-3-3 sigma expression results in a defective G2/M phase checkpoint and appears to

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contribute to both epithelial and non-epithelial tumorigenesis. Recombinant human 14-3-3 sigma was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

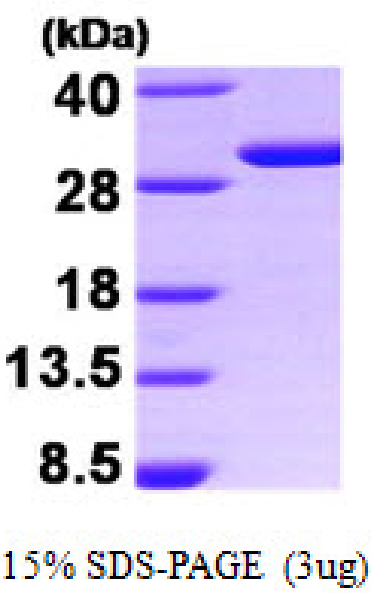
MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR VLSSIEQKSN EEGSEEKGPE VREYREKVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNPIRL GLALNFSVFH YEIANSPEEA ISLAKTTFDE AMADLHTLSE DSYKDSTLIM QLLRDNLTLW TADNAGEEGG EAPQEPQS

General References

Benzinger A., et al. (2005) Mol Cell Proteomics. 4(6): 785-95.
Wilker E W., et al. (2005) J Biol Chem. 280:18891-18898.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.