Recombinant human Retinol Binding Protein 1/RBP1 protein

Catalog Number: ATGP1303

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-197aa

UniProt No.
P09455

NCBI Accession No.
NP_002890

Alternative Names
Retinol binding protein 1, RBPC, CRABP-I, CRBPI, CRBP, CRBP1, Cellular retinol binding protein 1

PRODUCT SPECIFICATION

Molecular Weight
24.7 kDa (220aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

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
RBP1 (Retinol binding protein 1) belongs to the calycin superfamily and fatty-acid binding protein (FABP) family. RBP1 is the carrier protein involved in the transport of retinol (vitamin A alcohol) from the liver storage site to peripheral tissue. RBP1 can also act as a bridging molecule to recruit histone deacetylases (HDACs), proteins that function as potent regulators of gene expression. This protein is detected in nearly all the tissues with higher expression in adult ovary, pancreas, pituitary gland and adrenal gland, and fetal liver. Recombinant human RBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

Recombinant human Retinol Binding Protein 1/RBP1 protein

Catalog Number: ATGP1303

chromatography techniques.

Amino acid Sequence

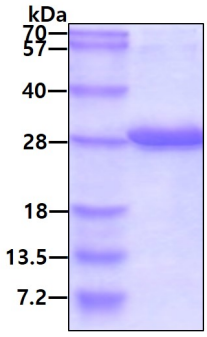
<MGSSHHHHHH SSGLVPRGSH MGS>MDPPAGF VRAGNPAVAA PQSPLSPEGA HFRAAHHPRS TGSRCPGSLQ PSRPLVANWL QSLPEMPVDF TGYWKMLVNE NFEEYLRALD VNVALRKIAN LLKPDKEIVQ DGDHMIIRTL STFRNYIMDF QVGKEFEEDL TGIDDRKCMT TVSWDGDKLQ CVQKGEKEGR GWTQWIEGDE LHLEMRVEGV VCKQVFKKVQ

General References

Lai, A., et al. (2001) Mol. Cell. Biol. 21: 2918-2932.
Folli C., et al. (2001) Proc. Natl. Acad. Sci. u.S.A. 98:3710-3715

DATA

SDS-PAGE



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