# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-219aa

**UniProt No.** 095716

NCBI Accession No. NP\_004274

# **Alternative Names**

RAB3D member RAS oncogene family, Ras-related protein Rab-3D, Rab3D upregulated with myeloid differentiation, glioblastoma overexpressed GOV, RAB16, D2-2, RAD3D

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

26.4 kDa (239aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.2M 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

Ras-related protein Rab-3D, also known as GOV, is a member of the Ras superfamily of small Rab GTPases. Rab proteins play an important role for, either in endocytosis or in biosynthetic protein transport. Rab3D mRNA is predominantly expressed in white adipose tissue and, coincident with GLuT4, increases upon differentiation of 3T3-L1 broblasts into insulin-responsive adipocytes. Rab3D displays close structural similarities with Rab 3A, an isoform which has been functionally implicated in regulated exocytosis in various cell types. Recombinant human



Rab3D protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

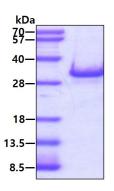
<MGSSHHHHHH SSGLVPRGSH> MASAGDTQAG PRDAADQNFD YMFKLLLIGN SSVGKTSFLF RYADDSFTPA FVSTVGIDFK VKTVYRHDKR IKLQIWDTAG QERYRTITTA YYRGAMGFLL MYDIANQESF AAVQDWATQI KTYSWDNAQV ILVGNKCDLE DERVVPAEDG RRLADDLGFE FFEASAKENI NVKQVFERLV DVICEKMNES LEPSSSSGSN GKGPAVGDAP APQPSSCSC

### **General References**

Zahraoui A., et al. (1989) J Biol Chem. 264:12934-12401. Baldini G., et al. (1992) Proc Natl Acad Sci. 89:5049-5052.

# DATA

### **SDS-PAGE**



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