Recombinant Fibroblast Activation Protein Alpha (FAPa)

Catalog # IC8314

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

[PROPERTIES]

Source: Prokaryotic expression.
Host: *E. coli*
Residues: Ile523~Asp760
Tags: N-terminal His-Tag
Tissue Specificity: Adipose, Fetal skin, Glioma, HSC.
Subcellular Location: Cell surface. Cell membrane; Single-pass type II membrane protein. Membrane, Single-pass type II membrane protein.
Purity: >95%
Traits: Freeze-dried powder
Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose.
Original Concentration: 200μg/mL
Applications: Positive Control; Immunogen; SDS-PAGE; WB.
(May be suitable for use in other assays to be determined by the end user.)
Predicted isoelectric point: 6.7
Predicted Molecular Mass: 30.5kDa
Accurate Molecular Mass: 26&40kDa as determined by SDS-PAGE reducing conditions.
Phenomenon explanation:
The possible reasons that the actual band size differs from the predicted are as follows:

1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
2. Relative charge: The composition of amino acids may affects the charge of the protein.
3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.

4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. Polymerization of the target protein: Dimerization, multimerization etc.

[USAGE]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.
Store at 2-8°C for one month.
Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

ILPPQFDR SKKYPLLIQV YGGPCSQSVR
SVFAVNWISY LASKEGMVIA LVDGRGTAFQ GDKLLYAVYR KLGVYEVEDQ
ITAVRKFIEM GFIDEKRIAI WGWSYGGYVS SLALASGTGL FKCGIAVAPV
SSWEYYASVY TERFMGLPTK DDNLEHYKNS TVMARAEYFR NVDYLLIHGT
ADDNVHFQNS AQIAKALVNA QVDFQAMWYS DQNHGLSGLS TNHLYTHMTH
FLKQCFSLSD

[IDENTIFICATION]

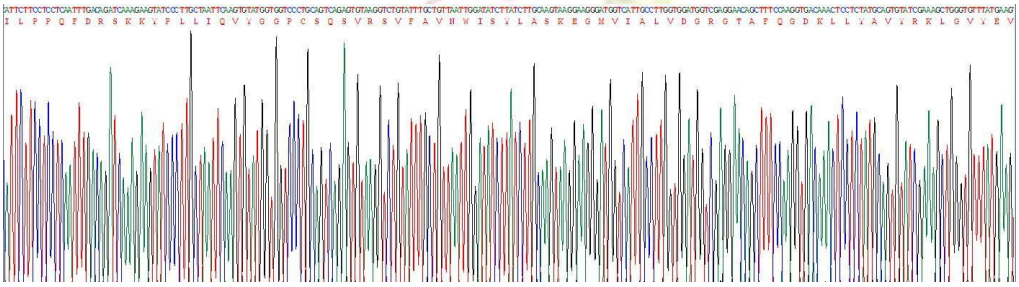


Figure 1. Gene Sequencing (Extract)

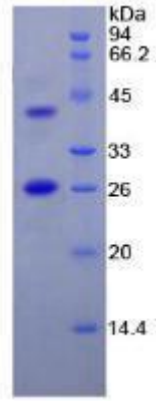
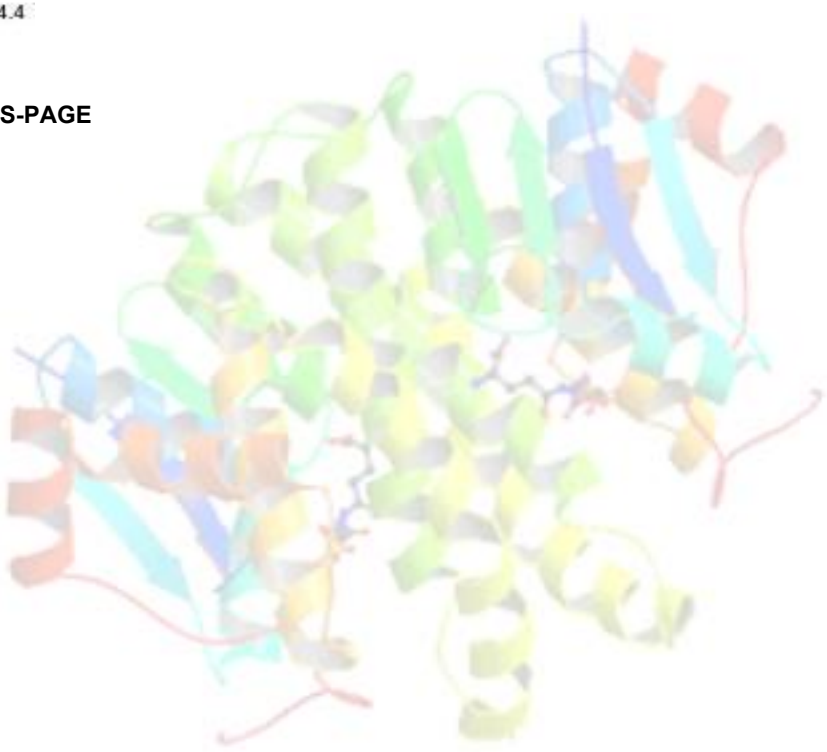


Figure 2. SDS-PAGE



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