

YBA133Po01 10 $\mu$ g

Recombinant Tumor Necrosis Factor Alpha (TNFa)

Organism Species: *Sus scrofa*; Porcine (Pig)*Instruction manual*

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

### [ PROPERTIES ]

Residues: Leu77~Leu232 (Accession # P23563), with two N-terminal Tags, His-tag and T7-tag.

Host: *E. coli*

Subcellular Location: Cell membrane; Secreted

Single-pass type II membrane protein.

Purity: >95%

Endotoxin Level: <1.0EU per 1 $\mu$ g  
(determined by the LAL method).

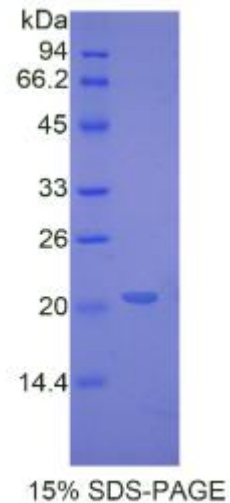
Formulation: Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.

Predicted isoelectric point: 6.8

Predicted Molecular Mass: 21.0kDa

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)



### [ USAGE ]



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**Reconstitute in sterile PBS, pH7.2-pH7.4.**



## [ 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 of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCES ]

The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below.

MG SSHH HHH H SGLVPRG SH MAS MTG GQ QM GRG SEF- LR SS SQ TSDKP VAH  
VVANVKAEGQ LQWQSGYANA LLANGVKLKD NQLVVPTDGL YLIYSQVLF R GQGPCSTNVF  
LTHTISR IAV SYQTKVNL LS AIKSPCQRET PEGAEAKPWY EPIYLGGVFQ LEKDDRLSAE  
INLPDYLDFA ESGQVYFGII AL

## [ REFERENCES ]

1. Drews R. T., *et. al.* (1990) J .Nucleic Acids Res. 18:5564-5564.
2. Kuhnert P., *et. al.* (1991) J .Gene 102:171-178.
3. Choi C. S., *et. al.* (1991) J .Anim. Biotechnol. 2:97-105.
4. Chardon P., *et. al.* (2001) J .Tissue Antigens 57:55-65 .
5. Pauli U., *et. al.* (1989) J .Gene 81:185-191.