

RPB954Mu01 10µg
Recombinant Monoamine Oxidase A (MAOA)
Organism Species: Mus musculus (Mouse)
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: Gln229~Gly428 (Accession # Q64133),
with N-terminal His-Tag.

Host: *E. coli*

Subcellular Location: Mitochondrion outer
membrane; Single-pass type IV membrane
protein; Cytoplasmic side.

Purity: >95%

Endotoxin Level: <1.0EU per 1µg
(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: 24.4kDa

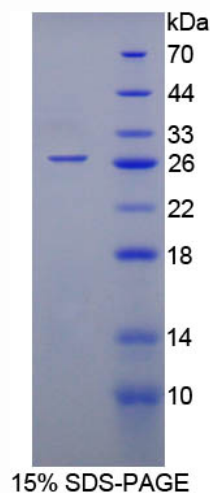
Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.

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

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

Note: 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 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 N-terminal His-Tag, its sequence is listed below.
MGHHHHHSGSEF-QI MVLLGDKVKL SSPVTYIDQT DDNIIETLN HEHYECKYVI
SAIPPVLTAK IHFKPELPPE RNQLIQLPM GAVIKCMVYY KEAFWKKKDY CGCMIEDEE
APISITLDDT KPDGSMPEIM GFILARKAER LAKLHKDIRK RKICELYAKV LGSQEALSPV
HYEKNWCEE QYSGGCYTAY FPPGIMTLYG RVIRQPVG

[REFERENCES]

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4. Naumenko V.S., *et al.* (2005) *Dokl. Biol. Sci.* 402:205-207.