

**RPC643Hu01 10µg**

**Recombinant Monoamine Oxidase B (MAOB)**

**Organism Species: *Homo sapiens (Human)***

***Instruction manual***

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Prokaryotic expression

**Host:** *E.coli*

**Residues:** Ser2~Val489

**Tags:** N-terminal His Tag

**Subcellular Location:** Secreted, Mitochondrion

**Purity:** > 90%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

**Original Concentration:** 1000µg/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:** 6.8

**Predicted Molecular Mass:** 58.7kDa

**Accurate Molecular Mass:** 30&61kDa 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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

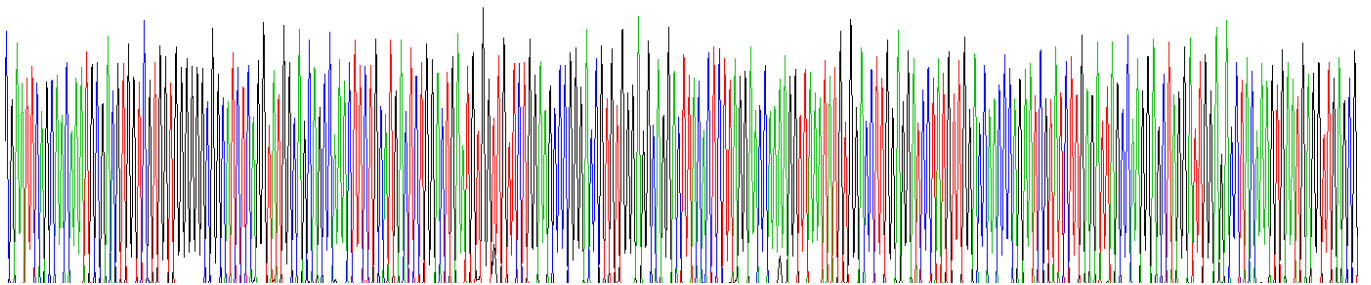
## **[ STORAGE AND STABILITY ]**

**Storage:** Avoid repeated freeze/thaw cycles.

Aliquot and store at -80°C for 12 months.

**[ SEQUENCE ]**

SNKCDVVVV GGGISGMAAA KLLHDSGLNV VVLEARDRVG GRITYTLRNQK  
VKYVDLGGSY VGPTQNRILR LAKELGLEY KVNEVERLIH HVKGKSYPPF  
GPFPPVWNPI TYLDHNNFWR TMDDMGREIP SDAPWKAPLA EEWDNMTMKE  
LLDKLCWTES AKQLATLFVN LCVTAETHEV SALWFLWYVK QCGGTTRIIS  
TTNGGQERKF VGGSGQVSR IMDLLGDRVK LERPVIYIDQ TRENVLVETI  
NHEMYEAKYV ISAIPPTLGM KIHFNPPPLM MRNQMITRVP LGSVIKCIYV  
YKEPFWRKKD YCGTMIIDGE EAPVAYTLDD TKPEGNYAAI MGFILAHKAR  
KLARLTKEER LKKLCELYAK VLGSLEALEP VHYYEKNWCE EQYSGGCYTT  
YFPPGILTQY GRVLRQPVD R IYFAGTETAT HWSGYMEGAV EAGERAAAREI  
LHAMGKIPED EIWQSEPEVS DVPAQPITTT FLERHLPSV

[illegible]

**Figure . Gene Sequencing (extract)**

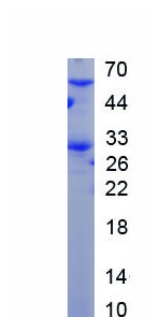


Figure. SDS-PAGE

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.