RPA178Bo01 100ug

Recombinant Alpha-2-Heremans Schmid Glycoprotein (AHSG)

Organism Species: *Bos taurus; Bovine (Cattle)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression

Host: *E.coli*

Residues: Ile19~Ile359

Tags: N-terminal His Tag

Subcellular Location: Secreted

Purity: > 90%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% SKL, 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: 4.9

Predicted Molecular Mass: 40.1kDa

Accurate Molecular Mass: 48kDa 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.

Store at 2-8⁰C for one month.

Aliquot and store at -80⁰C 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]

```
IP LDPVAGYKEP ACDDPDTEQA ALAAVDYINK
HLPRGYKHTL NQIDSVKVWP RRPTGEVYDI EIDTLETTCH VLDPTPLANC
SVRQQTQHAV EGDCDIHVLK QDGQFSVLFT KCDSSPDSAE DVRKLCPDCP
LLAPLNDSRV VHAVEVALAT FNAESNGSYL QLVEISRAQF VPLPVSVSVE
FAVAATDCIA KEVVDPTKCN LLAEKQYGFC KGSVIQKALG GEDVRVTCTL
FQTQPVIPQP QPDGAEAEAP SAVPDAAGPT PSAAGPPVAS VVVGPSVVAV
PLPLHRAHYD LRHTFSGVAS VESSSGEAFH VGKTPIVGQP SIPGGPVRLC
PGRIRYFKI
```

[IDENTIFICATION]

[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.