

**EPC534Hu61 1mg**  
**Eukaryotic Histidine Rich Glycoprotein (HRG)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

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

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11th Edition (Revised in May, 2016)

**[ PROPERTIES ]**

**Source:** Eukaryotic expression.

**Host:** 293F cell

**Residues:** Val19~Lys525

**Tags:** N-terminal His Tag

**Homology:** Mouse 60%, rat 61%

**Tissue Specificity:** Liver.

**Subcellular Location:** Secreted.

**Purity:** >98%

**Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method).

**Traits:** Freeze-dried powder

**Buffer Formulation:** PBS, pH7.6, containing 5% trehalose.

**Original Concentration:** 200ug/mL

**Applications:** SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays;  
Purification; Amine Reactive Labeling.

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

**Predicted isoelectric point:** 7.0

**Predicted Molecular Mass:** 59.3kDa

**Accurate Molecular Mass:** 80kDa 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 PBS (pH7.6) 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 ]**

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VS PTDCSAVEPE AEKALDLINK RRRDGYLFQL
LRIADAHLDR VENTTVYYLV LDVQESDCSV LSRKYWNDCE PPDSRRPSEI
VIGQCKVIAT RSHESQDLR VIDFNCTTSS VSSALANTKD SPVLIDFFED
TERYRKQANK ALEKYKEEND DFASFRVDRI ERVARVRGGE GTGYFVDFSV
RNCPRHHFPR HPNVFGFCRA DLFYDVEALD LESPKNLVIN CEVFDPQEHE
NINGVPPHLG HPFHWGGER SSTTKPPFKP HGSRDHHPH KPHEHGPPPP
PDERDHSHP PLPQGPPPL PMSCSSCQHA TFGTNGAQRH SHNNNSSDLH
PHKHSHEQH PHGHHPHAH PHEHDTHRQH PHGHHPHGHH PHGHHPHGHH
PHGHHPHCHD FQDYGPCDPP PHNQGHCHG HGPPPGHLRR RGPKGKPRPF
HCRQIGSVYR LPPLRKGEVL PLPEANFPSF PLPHHKHPLK PDNQPFQSV
SESCPGKFKS GFPQVSMFFT HTPFK
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[ IDENTIFICATION ]

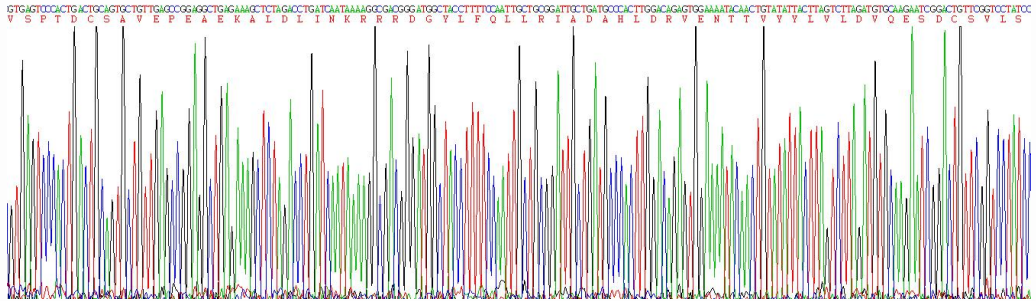


Figure 1. Gene Sequencing (extract)

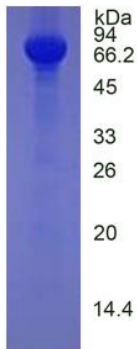


Figure 2. SDS-PAGE