

**EPA757Hu62 100µg**

**Eukaryotic Epidermal Growth Factor Receptor (EGFR)**

**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:** Eukaryotic expression

**Host:** 293F cell

**Residues:** Leu25~Ser645

**Tags:** N and C-terminal His Tags

**Subcellular Location:** Secreted

**Purity:** > 90%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 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:** 6.5

**Predicted Molecular Mass:** 70.2kDa

**Accurate Molecular Mass:** 120kDa 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 affect 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 2-8°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 ]

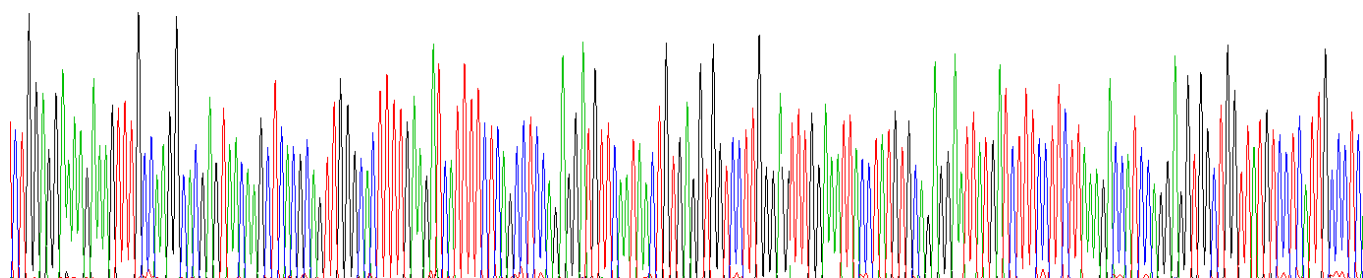
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                LEEKKV CQGTSNKLTQ LGTFEDHFLS
LQRMFNNECV VLG NLEITYV QRNYDLSFLK TIQEVAGYVL IALNTVERIP
LENLQIIRGN MYYENSYALA VLSNYDANKT GLKELPMRNL QEILHGAVRF
SNNPALCNEV SIQWRDIVSS DFLSNMSMDF QNHLGSCQKC DPSPNGSCW
GAGEENCQKL TKIICAQQCS GRCRGKSPSD CCHNQCAAGC TGPRESDECLV
CRKFRDEATC KDTCPPLMLY NPTTYQMDVN PEGKYSFGAT CVKKCPRNYV
VTDHGSCVRA CGADSYEMEE DGVRKCKKCE GPCRKVCNGI GIGEFKDSLS
INATNIKHFK NCTSISGDLH ILPVAFRGDS FTHTPPLDPQ ELDILKTVKE
ITGFLLIQAW PENRTDLHAF ENLEIIRGRT KQHGQFSLAV VSLNITSLGL
RSLKEISDGD VIISGNKNLC YANTINWKKL FGTSGQKTKI ISNRGENSCK
ATGQVCHALC SPEGCWGPEP RDCVSCRNVS RGRECVDKCN LLEGEPREFV
ENSECIQCHP ECLPQAMNIT CTGRGPDNCI QCAHYIDGPH CVKTCPAGVM
GENNTLVWKY ADAGHVCHLC HPNCTYGCTG PGLEGCP TNG PKIPS

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### [ IDENTIFICATION ]

CTGGAGGAAAGAGTTTCCAGGCGCGAGTACAGCTCCGCGCTTGGGCGCTTTGAGGATCATTTCTGACCTCCAGGCGAGTGTCTAATCTCTGAGCTGCTCTGGGAGTTTGGGAAATTAAGCTATGTCAGAGGAGTTATGATCTTTCTCTTAAAGAGCATCCAGGAGGTGCTGGTTATGTCCTCATTTGCTCTG  
 I E E K K V C Q G T S N K I T Q L G T F E D H F L S I Q R N Y D L S F L K T I Q E V A G V V I A L I



**Figure . Gene Sequencing (extract)**

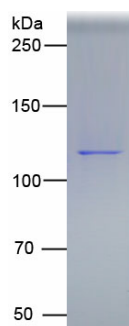


Figure. SDS-PAGE

### **[ 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.