RPA895Hu01 100μg
Recombinant Insulin Receptor (ISR)
Organism Species: Homo sapiens (Human)

Instruction manual

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

12th Edition (Revised in Aug, 2016)
[ PROPERTIES ]

Source: Prokaryotic expression.
Host: *E. coli*
Residues: Thr1024~Phe1298
Tags: N-terminal His-Tag
Tissue Specificity: Heart, Kidney, Skeletal Muscle.
Subcellular Location: Membrane; Single-pass type I membrane protein.
Purity: >92%
Traits: Freeze-dried powder
Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
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: 32.3kDa
Accurate Molecular Mass: 14&32kDa 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 20mM Tris, 150mM NaCl (pH8.0) 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 ]**

TLLRELG QGSFGMVEG NARDIIKGEA
ETRVAKTVN ESASLRERIE FLNEASVMKG FTCHHVVRLL GVVSJQGQPTL
VVMELMAHGD LKSYLRSLRP EAEANPGRPP PTLQEMIQMA AEIADGMAYL
NAKKFVHRDL AARNCMVAHD FTVKIGDFGM TRDIYETDYR RKGKKGLLPV
RWMAPESLKD GVFTTSDMW SFGVVLWEIT SLAEQPYQGL SNEQVLKFVM
DGGYLDQPDN CPERVTDLMR MCWQFPKMR PTFLEIVNLL KDDLHPSF

**[ IDENTIFICATION ]**

![Gene Sequencing (Extract)](image-url)

Figure 1. Gene Sequencing (Extract)
Figure 2. SDS-PAGE