**RPA156Hu01 10μg**

**Recombinant Carbohydrate Antigen 19-9 (CA19-9)**

**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:** Arg35~Thr361

**Tags:** N-terminal His Tag

**Subcellular Location:** Membrane, Golgi apparatus

**Purity:** > 95%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 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:** 9.0

**Predicted Molecular Mass:** 39.7kDa

**Accurate Molecular Mass:** 43kDa 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 (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## [ STORAGE AND STABILITY ]

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

Store at 2-8ºC for one month.

Aliquot and store at -80ºC 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 ]**

RVSRDD ATGSPRAPSG
SSRQDTTPTR PTLLILLWTW PFHIPVALSR CSEMVPGTAD CHITADRKVY
PQADTVIVHH WDIMSNPKSR LPPSPRPQGQ RWIWFNLEPP PNCQHLEALD
RYFNLTMSYR SDSDIFTPYG WLEPWSGQPA HPPLNLSAKT ELVAWAVSNW
KPDSARVRYY QSLQAHLKVD VYGRSHKPLP KGTMMETLSR YKFYLAFENS
LHPDYITEKL WRNALEAWAV PVVLGPSRSN YERFLPPDAF IHVDDFQSPK
DLARYLQELD KDHARYLSYF RWRETLRPRS FSWALDFCKA CWKLQQESRY
QTVRSIAAWF T

**[ IDENTIFICATION ]**

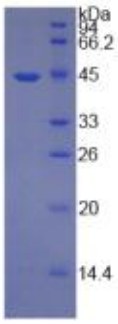


Figure. SDS-PAGE

**[ IMPORTANT NOTE ]**

The kit is designed for in vitro and research use only, we will not be responsible for any issue if

the kit was used in clinical diagnostic or any other procedures.