

**RPA156Hu01 10 $\mu$ g**  
**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

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12th Edition (Revised in Aug, 2016)

## [ **PROPERTIES** ]

**Source:** Prokaryotic expression.

**Host:** *E. coli*

**Residues:** Arg35~Thr361

**Tags:** N-terminal His-Tag

**Homology:** Mouse 45%, rat 44%

**Tissue Specificity:** Stomach, intestine, lung, kidney.

**Subcellular Location:** Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein.

**Purity:** >95%

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

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.

**Original Concentration:** 200ug/mL

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

(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 2-8°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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                                     RVSRDD ATGSPRAPSG
SSRQDTTPTR PTLILLLWTW PFHIPVALSR CSEMVPGTAD CHITADRKVY
PQADTVIVHH WDIMSNPKSR LPPSPRPQGQ RWIWFNLEPP PNCQHLEALD
RYFNLTMSYR SDSDIFTPYG WLEPWSGQPA HPPLNLSAKT ELVAWAVSNW
KPDSARVRYQ QSLQAHLKVD VYGRSHKPLP KGTMMETLSR YKFYLAFENS
LHPDYITEKL WRNALEAWAV PVVLGPSRSN YERFLPPDAF IHVDDFQSPK
DLARYLQELD KDHARYLSYF RWRETLRPRS FSWALDFCKA CWKLQQESRY
QTVRSIAAWF T
    
```

## [ IDENTIFICATION ]

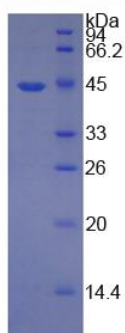


Figure 2. SDS-PAGE