TEL:4006-871-227 Web:www.ybio.net Email:shybio@126.com

YBC538Mu01 100µg

Recombinant Islet Cell Autoantigen 1 (ICA1)

Organism Species: Mus musculus (Mouse)

Instruction manual

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

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Residues: Met1~Gly257 (Accession # P97411), with two N-terminal Tags, His-tag and S-tag.

Host: E. coli

Subcellular Location: Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle membrane; synaptic vesicle membrane.

Purity: >95%

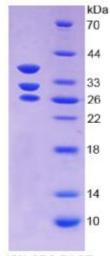
Endotoxin Level: <1.0EU per 1 µ g (determined by

the LAL method).

Formulation: Supplied as lyophilized form in 20ml Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM

DTT, 0.01% sarcosyl, 5% trehalose, and preservative.

Predicted isoelectric point: 8.8 Predicted Molecular Mass: 35.9kDa



15% SDS-PAGE

The possible reasons that the actual band size differs from the predicted are as follows: Accurate Molecular Mass: 26&32&37kDa as determined by SDS-PAGE reducing conditions.



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Applications: SDS-PAGE; WB; ELISA; IP.

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

- 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 ddH₂O.

[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 of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with two N-terminal Tags, His-tag and S-tag, its sequence is listed below.

MHHHHHHSSG LVPRGSGMKE TAAAKFERQH MDSPDLGTDD DDKAMADIGS EF-

MS G H K C Y S W E LQ D R FA Q D K S V V N K M Q Q K Y W E T K Q A F I K AT G K K E D E H V VA

SDADLDAKLE LFHSIQRTCL DLSKAIVLYQ KRICFLSQEE NELGKFLRSQ GFQDKTRAGK

MMQATGKALC FSSQORLALR NPLCRFHQEV ETFRHRAISD TWLTVNRMEQ YRTEYRGALL

W M K D V S Q E L D P D LY K Q M E K F R K V Q T Q V R L A K K N F D K L K M D V C Q K V D L L G A



SRCNLLSHML ATYQTTLLHF WEKTSHTMAA IHESFKG

[REFERENCES]

- 1. Gaedigk R., et al. (1996) Genomics 38:382-391.
- 2. Karges W. J. P., et al. (1997) Biochim. Biophys. Acta 1360:97-101.
- 3. Church D.M., et al. (2009) PLoS Biol. 7:E1000112-E1000112.
- 4. Pilon M., et al. (2000) Mol. Biol. Cell 11:3277-3288.