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YBD098Hu01 50 $\mu$ g

Recombinant Hemoglobin Beta (HB $\beta$ )

Organism Species: Homo sapiens (Human)

*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~His147 (Accession # P68871), with two  
N-terminal Tags, His-tag and GST-tag.

Host: *E. coli*

Purity: >95%

Endotoxin Level: <1.0EU per 1 $\mu$ g (determined by the  
LAL method).

Formulation: Supplied as lyophilized form in 20mL  
Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM  
DTT, 0.01% sarcosyl, 5% trehalose, and preservative.

Predicted isoelectric point:

The possible reasons that the actual band size differs from the predicted are as follows:

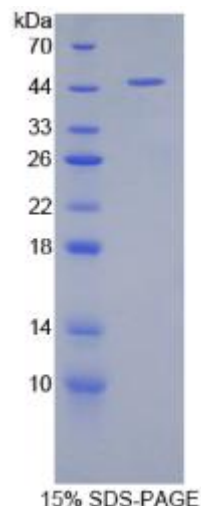
6.6 Predicted Molecular Mass:

50.0kDa

Accurate Molecular Mass: 46kDa as determined by SDS-PAGE reducing  
conditions. Applications: SDS-PAGE; WB; ELISA; IP.

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

Note:





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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 ddH<sub>2</sub>O.

## [ 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 GST-tag, its sequence is listed below.

MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID  
GDVKLTQ SMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSR IA YSKDFETLKV  
DFLSKLP EML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFP KLVCFK  
KRIEAI PQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD GSTSGSGHHH HHHSAGLVPR  
GSTAIGMKET AA AKFERQHM DSPDLGTGGG SGIEGRGSMG YRGSEFCTG LGAPAGELRR



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QAC- MVHLTPEEKS AVTALWGKVN VDEVGGEALG RLLVVYPWTQ RFFESFGDLS  
TPDAVMGNPK VKAHGKKVLG AFSDGLAHLN NLKGTFTALS ELHCDKLHVD PENFRLNGV  
LVCVLAHFFG KEFTPPVQAA YQKVVAGVAN ALAHKYH

## [ REFERENCES ]

1. Marotta C., *et al.* (1976) *Prog. Nucleic Acid Res. Mol. Biol.* 19:165-175.
2. Lawn R. M., *et al.* (1980) *Cell* 21:647-651.
3. Wood E. T., *et al.* (2005) *Am. J. Hum. Genet.* 77:637-642.
4. Yoshioka N., Atassi M. Z. (1986) *Biochem. J.* 234:453-456.