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

YBA262Mu01 100μg

Recombinant Transferrin Receptor 2 (TFR2)

Organism Species: Mus musculus (Mouse)

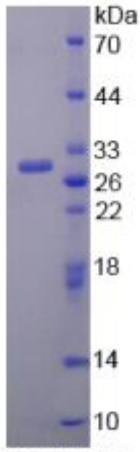
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

10th Edition (Revised in Jan, 2014)

[PROPERTIES]



15% SDS-PAGE

Residues: Ile86~Val259

Tags: Two N-terminal Tags, His-tag and T7-tag

Accession: Q9JKX3

Host: *E. coli*

Subcellular Location: Cell membrane; Single-pass type II membrane protein.

Purity: >90%

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

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

Predicted isoelectric point: 5.1

Predicted Molecular Mass: 25.1kDa

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

Accurate Molecular Mass: 29kDa 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:

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.

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[USAGE]

Reconstitute in sterile ddH_2O.

[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 sequence of the target protein is listed below.

ITLLIFTG AFLLGYVAFR GSCQACGDSV LVVDEDVNPE DSGRTTLYWS DLQAMFLRFL
GEGRMEDTIR LTSLRERVAG SARMATLVQD ILDKLSRQKL DHVWTDTHYV GLQFPDPAHA
NTLHWVDADG SVQEQLPLED PEVYCPYSAT GNATGKLVYA HYGRSEDLQD LKAKGV

[REFERENCES]

1. Fleming R.E., *et al.* (2000) Proc. Natl. Acad. Sci. U.S.A. 97:2214-2219.
2. Kawabata H., *et al.* (2001) Blood 98:1949-1954.
3. Carninci P., *et al.* (2005) Science 309:1559-1563.
4. The MGC Project Team. (2004) Genome Res. 14:2121-2127.