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YBA782Ra01 10 μ g

Recombinant Carbonic Anhydrase II (CA2)

Organism Species: *Rattus norvegicus* (Rat)

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~Lys260 (Accession # P27139), with
N-terminal His-Tag.

Host: *E. coli*

Subcellular Location: Cytoplasm.

Purity: >95%

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

Formulation: Supplied as lyophilized form in PBS
pH7.4, containing 1mM DTT, 5% trehalose, 0.05%
sarcosyl and preservative.

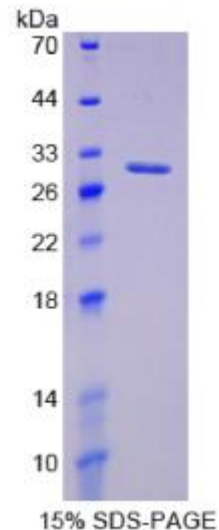
Predicted isoelectric point: 6.8

Predicted Molecular Mass: 30.6kDa

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

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

[USAGE]





Reconstitute in sterile PBS, pH7.2-pH7.4.

[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 N-terminal His-Tag, its sequence is listed below.

MGHHHHHSGSEF- MSHHWGYSKS NGPENWHKEF PIANGDRQSP VDIDTGT AQH
DPSLQPLLIC YDKVASKSIV NNGHSFNVEF DDSQDFAVLK EGPLSGSYRL IQFHFHWGSS
DGQGSEHTVN KKKYAAELHL VHWNTKYGDF GKAVQHPDGL AVLGIFLKIG PASQLQKIT
EALHSIKTKG KRAAFANFDP CSLLPGNLDY WTYPGSLTTP PLLECVTWIV LKEPITVSSE
QMSHFRKLN F NSEGEAEELM VDNWRPAQPL KNRKIKASFK

[REFERENCES]

1. Stolle C. A., *et al.* (1991) *Gene* 109:265-267.
2. McGowan M. H., *et al.* (1997) *Gene* 186:181-188.
3. Lehenkari P., *et al.* (1998) *Exp. Cell Res.* 242:128-137.
4. Laitala-Leinonen T., *et al.* (1999) *J. Cell. Sci.* 112:3657-3666.