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YB93071Hu01

Carbonic Anhydrase IV (CA4)

Organism: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)

[DESCRIPTION]

Protein Names: Carbonic Anhydrase IV

Synonyms: CA4

Species: Human

Size: 100μg

Source: *Escherichia* coli-derived

Subcellular Location: Cell membrane; Lipid-anchor, GPI-anchor.

[PROPERTIES]

Residues: Ala19~Lys283 (Accession # P22748), with N-terminal His-Tag.

Grade & Purity: >95%, 32 kDa as determined by SDS-PAGE reducing conditions.

Formulation: Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.

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

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

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

Predicted Molecular Mass: 31.8 kDa

Predicted isoelectric point: 6.5

[PREPARATION]

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.

MGHHHHHHSGSEF-AE SHWCYEVQAE SSNYPCLVPV KWGGNCQKDR QSPINIVTTK AKVDKKLGRF FFSGYDKKQT
WTVQNNGHSV MMLLENKASI SGGGLPAPYQ AKQLHLHWSD LPYKGSEHSL DGEHFAMEMH IVHEKEKGTS RNVKEAQDPE
DEIAVLAFLV EAGTQVNEGF QPLVEALSNI PKPEMSTTMA ESSLLDLLPK EEKLRHYFRY LGSLTTPTCD EKVVWTVFRE
PIQLHREQIL AFSQKLYYDK EQTVSMKDNV RPLQQLGQRT VIK