YBA068Hu01 50μg

# Recombinant Glial Fibrillary Acidic Protein (GFAP)

Organism Species: Homo sapiens (Human)

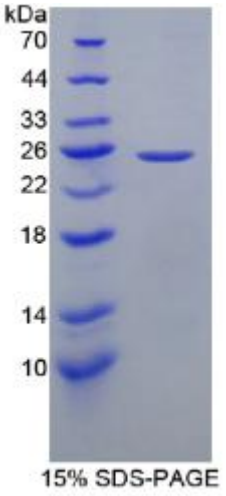
*Instruction manual*

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: Glu254~Glu374

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

Accession: P14136

Host: *E. coli*

Subcellular Location: Cytoplasm.

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.

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

Predicted isoelectric point: 5.1

Predicted Molecular Mass: 20.0kDa

Accurate Molecular Mass: 25kDa 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.

## [ USAGE ]

Reconstitute in dd$H_2O$.

## [ 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.

EEWYRSKF ADLTDAAARN AELLRQAKHE ANDYRRQLQS LTCDLESLRG TNESLERQMR

EQEERHVREA ASYQEALARL EEEGQSLKDE MARHLQEYQD LLNVKLALDI EIATYRKLLE

GEE

## [ REFERENCES ]

1. Reeves S.A., *et al.* (1989) Proc. Natl. Acad. Sci. U.S.A. 86:5178-5182.
2. Brenner M., *et al.* (1990) Brain Res. Mol. Brain Res. 7:277-286.
3. Bongcam-Rudloff E., *et al.* (1991) Cancer Res. 51:1553-1560.
4. Kumanishi T., *et al.* (1992) Acta Neuropathol. 83:569-578.