



**EPN576Hu61 250ug**  
**Eukaryotic Fibronectin Type III Domain Containing Protein 5 (FNDC5)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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12th Edition (Revised in Aug, 2016)

## [ **PROPERTIES** ]

**Source:** Eukaryotic expression.

**Host:** 293F cell

**Residues:** Asp32~Glu143

**Tags:** N-terminal His Tag

**Homology:** Mouse 98%, rat 98%

**Tissue Specificity:** Brain, Liver.

**Subcellular Location:** Secreted.

**Purity:** >98%

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

**Traits:** Freeze-dried powder

**Buffer Formulation:** PBS, pH7.6, containing 5% trehalose.

**Original Concentration:** 200ug/mL

**Applications:** SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling.

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

**Predicted isoelectric point:** 5.0

**Predicted Molecular Mass:** 14.2kDa

**Accurate Molecular Mass:** 27kDa as determined by SDS-PAGE reducing conditions.

### **Phenomenon explanation:**

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

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 PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## [ 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. 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. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCE ]

```
                DSPSAPVNV TVRHLKANSA  
VVSWDVLEDE VVIGFAISQQ KKDVRMLRFI QEVNTTTRSC ALWDLEEDTE  
YIVHVQAISI QGQSPASEPV LFKTPREAEK MASKNKDEVT MKE
```

## [ IDENTIFICATION ]

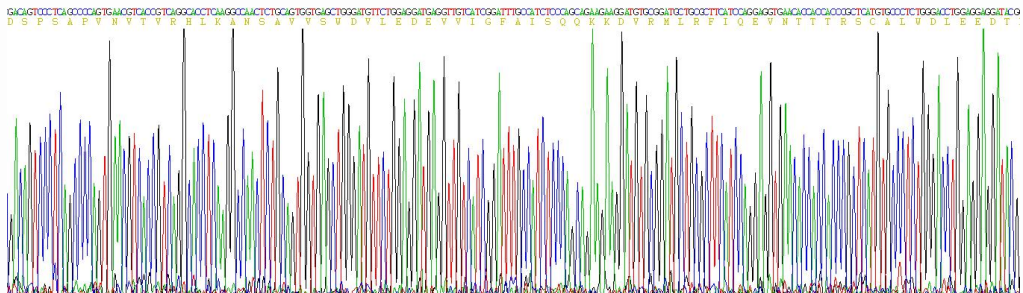


Figure 1. Gene Sequencing (extract)

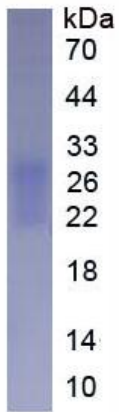


Figure 2. SDS-PAGE