

**FNDC4, human/mouse recombinant protein**  
**Fibronectin Type III Domain-containing Protein 4; Fibronectin Type III Repeat-containing Protein 1**  
**Catalog # PBV11182r**

## Specification

---

### FNDC4, human/mouse recombinant protein - Product info

|                   |                                                                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Accession | <a href="#">Q9H6D8</a>                                                                                                                                                            |
| Calculated MW     | ~16.0 kDa. (Extracellular domain, human (aa 45-167) / mouse (aa 41-163)) is untagged. FNDC4 extracellular domain has 100% identity between human, mouse, rat, dog and monkey. KDa |

### FNDC4, human/mouse recombinant protein - Additional Info

|                                                                                                    |                       |
|----------------------------------------------------------------------------------------------------|-----------------------|
| Gene ID                                                                                            | <b>64838</b>          |
| Gene Symbol                                                                                        | <b>FNDC4</b>          |
| <b>Other Names</b>                                                                                 |                       |
| Fibronectin Type III Domain-containing Protein 4; Fibronectin Type III Repeat-containing Protein 1 |                       |
| Gene Source                                                                                        | <b>Human/Mouse</b>    |
| Source                                                                                             | <b>E. coli</b>        |
| Assay&Purity                                                                                       | <b>SDS-PAGE; ≥95%</b> |
| Assay2&Purity2                                                                                     | <b>N/A;</b>           |
| Recombinant                                                                                        | <b>Yes</b>            |
| <b>Target/Specificity</b>                                                                          |                       |
| FNDC4                                                                                              |                       |

### Application Notes

Reconstitute with 100 µl sterile distilled water.

### Format

Lyophilized

### Storage

-20°C; Lyophilized in PBS.

### FNDC4, human/mouse recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

**FNDC4, human/mouse recombinant protein - Images****FNDC4, human/mouse recombinant protein - Background**

Irisin is a recently described exercise-induced hormone secreted by skeletal muscle in mice and humans. Irisin activates beige fat cells (beige cells have a gene expression pattern distinct from either white or brown fat and are preferentially sensitive to the polypeptide hormone Irisin). Irisin is cleaved from the type I membrane protein FNDC5 and improves systemic metabolism by increasing energy expenditure. FNDC4 is an ortholog of FNDC5 with 50% identity and 86% similarity compared to Irisin. FNDC4 as well as FNDC5 are extremely well conserved between species. The function of FNDC4 is unknown. The human FNDC4 gene is highly enriched in liver, brain tissue and adipocytes.

**FNDC4, human/mouse recombinant protein - References**

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).  
Hillier L.W.,et al.Nature 434:724-731(2005).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.