

**FNDC5, human/mouse recombinant protein**  
**Fibronectin Type III Domain-containing Protein 5; Fibronectin Type III Repeat-containing Protein 2**  
**Catalog # PBV11183r**

## Specification

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### FNDC5, human/mouse recombinant protein - Product info

|                   |                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Accession | <a href="#">Q8NAU1</a>                                                                                                                                               |
| Calculated MW     | ~16.0 kDa. (extracellular domain, human (aa 32-152) / mouse (aa 29-149)) is untagged. FNDC5 extracellular domain has 100% identity between human, mouse and rat. kDa |

### FNDC5, human/mouse recombinant protein - Additional Info

|                                                                                                    |                |
|----------------------------------------------------------------------------------------------------|----------------|
| Gene ID                                                                                            | 252995         |
| Gene Symbol                                                                                        | FNDC5          |
| <b>Other Names</b>                                                                                 |                |
| Fibronectin Type III Domain-containing Protein 5; Fibronectin Type III Repeat-containing Protein 2 |                |
| Gene Source                                                                                        | Human/Mouse    |
| Source                                                                                             | E. coli        |
| Assay&Purity                                                                                       | SDS-PAGE; ≥95% |
| Assay2&Purity2                                                                                     | N/A;           |
| Recombinant                                                                                        | Yes            |
| <b>Target/Specificity</b>                                                                          |                |
| FNDC5                                                                                              |                |

### Application Notes

Reconstitute with 100 µl sterile distilled water.

### Format

Lyophilized

### Storage

-20°C; Lyophilized in PBS.

### FNDC5, 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](#)

**FNDC5, human/mouse recombinant protein - Images****FNDC5, 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.

**FNDC5, human/mouse recombinant protein - References**

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).  
Bostrom P.,et al.Nature 481:463-468(2012).