

**WDFY2 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5783c****Specification**

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**WDFY2 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O96P53](#)  
Other Accession [NP\\_443182.1](#)

**WDFY2 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 115825

**Other Names**

WD repeat and FYVE domain-containing protein 2, WD40- and FYVE domain-containing protein 2, Zinc finger FYVE domain-containing protein 22, WDFY2, WDF2, ZFYVE22

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**WDFY2 Antibody (Center) Blocking peptide - Protein Information**

**Name** WDFY2

**Synonyms** WDF2, ZFYVE22

**Function**

Acts in an adapter protein-like fashion to mediate the interaction between the kinase PRKCZ and its substrate VAMP2 and increases the PRKCZ-dependent phosphorylation of VAMP2 (PubMed:<a href="http://www.uniprot.org/citations/17313651" target="\_blank">17313651</a>). Positively regulates adipocyte differentiation, by facilitating the phosphorylation and thus inactivation of the anti- adipogenetic transcription factor FOXO1 by the kinase AKT1 (PubMed:<a href="http://www.uniprot.org/citations/18388859" target="\_blank">18388859</a>). Plays a role in endosomal control of AKT2 signaling; required for insulin-stimulated AKT2 phosphorylation and glucose uptake and insulin-stimulated phosphorylation of AKT2 substrates (By similarity). Participates in transferrin receptor endocytosis (PubMed:<a href="http://www.uniprot.org/citations/16873553" target="\_blank">16873553</a>).

**Cellular Location**

Endosome. Early endosome. Cytoplasm {ECO:0000250|UniProtKB:Q8BUB4}. Note=Localizes to intracellular vesicles (PubMed:16792529). Colocalizes with VAMP2 and PRKCZ in intracellular

vesicles (PubMed:17313651). Colocalizes with AKT2 in early endosomes (By similarity).  
{ECO:0000250|UniProtKB:Q8BUB4, ECO:0000269|PubMed:16792529,  
ECO:0000269|PubMed:17313651}

### **WDFY2 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **WDFY2 Antibody (Center) Blocking peptide - Images**

### **WDFY2 Antibody (Center) Blocking peptide - Background**

WDFY2 is a protein that contains two WD domains and an FYVE zinc finger region. The function of this gene is unknown. An alternatively spliced transcript variant of this gene may exist.

### **WDFY2 Antibody (Center) Blocking peptide - References**

Fritzius, T., et al. FEBS J. 274(6):1552-1566(2007) Fritzius, T., et al. Biochem. J.  
399(1):9-20(2006) Hayakawa, A., et al. Proc. Natl. Acad. Sci. U.S.A. 103(32):11928-11933(2006)