

**MEP50 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP6771a**

### Specification

#### MEP50 Antibody (N-term) Blocking peptide - Product Information

Primary Accession  
Other Accession

[Q9BOA1](#)  
[NP\\_077007.1](#)

#### MEP50 Antibody (N-term) Blocking peptide - Additional Information

**Gene ID** 79084

##### Other Names

Methylosome protein 50, MEP-50, Androgen receptor cofactor p44, WD repeat-containing protein 77, p44/Mep50, WDR77, MEP50, WD45

##### 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.

#### MEP50 Antibody (N-term) Blocking peptide - Protein Information

**Name** WDR77 ([HGNC:29652](#))

##### Function

Non-catalytic component of the methylosome complex, composed of PRMT5, WDR77 and CLNS1A, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins and histones (PubMed:<a href="http://www.uniprot.org/citations/11756452" target="\_blank">11756452</a>). This modification targets Sm proteins to the survival of motor neurons (SMN) complex for assembly into small nuclear ribonucleoprotein core particles. Might play a role in transcription regulation. The methylosome complex also methylates the Piwi proteins (PIWI1, PIWI2 and PIWI4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage (PubMed:<a href="http://www.uniprot.org/citations/23071334" target="\_blank">23071334</a>).

##### Cellular Location

Nucleus. Cytoplasm. Note=Nuclear in Leydig cells and cytoplasmic in germ cells during fetal testicular development. In adult testis, predominantly nuclear. Subcellular location varies from nuclear to cytoplasmic in various tumors (PubMed:17437848).

##### Tissue Location

Highly expressed in heart, skeletal muscle, spleen, testis, uterus, prostate and thymus. In testis, expressed in germ cells and Leydig cells, but not in peritubular myocytes, nor in Sertoli cells. Expressed in prostate cancers, in seminomas and in Leydig cell tumors.

### **MEP50 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **MEP50 Antibody (N-term) Blocking peptide - Images**

### **MEP50 Antibody (N-term) Blocking peptide - Background**

WDR77 is a component of the 20S PRMT5 (MIM604045)-containing methyltransferase complex, which modifies specific arginines to dimethylarginines in several spliceosomal Smproteins (see MIM 601061). This modification targets Sm proteins to the survival of motor neurons (SMN) complex (see MIM 600354) for assembly into small nuclear ribonucleoprotein core particles (Friesen et al., 2002 [PubMed 11756452]).

### **MEP50 Antibody (N-term) Blocking peptide - References**

Vascotto, C., et al. Mol. Cell. Biol. 29(7):1834-1854(2009) Peng, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 105(13):5236-5241(2008) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Liang, J.J., et al. J. Urol. 177(5):1918-1922(2007) Lamesch, P., et al. Genomics 89(3):307-315(2007)