

**WDR77 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AP52808****Specification**

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**WDR77 Antibody - Product Information**

Application	WB, ICC
Primary Accession	<a href="#">O9BQA1</a>
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	42 KDa

**WDR77 Antibody - Additional Information****Gene ID** 79084**Other Names**

2610312E17Rik;Androgen receptor cofactor p44;C79984;HKMT1069;MEP 50;MEP-50;MEP50;MEP50\_HUMAN;Methylosome protein 50;MGC2722;Nbla10071;p44;p44/Mep50;RGD1310479;RP11552M11.3;WD repeat containing protein 77;WD repeat domain 77;WD repeat-containing protein 77;WDR77.

**Dilution**

WB~~1:1000

ICC~~1:100

**Format**

Purified mouse monoclonal in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**WDR77 Antibody - 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 (PIWIL1, PIWIL2 and PIWIL4), 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

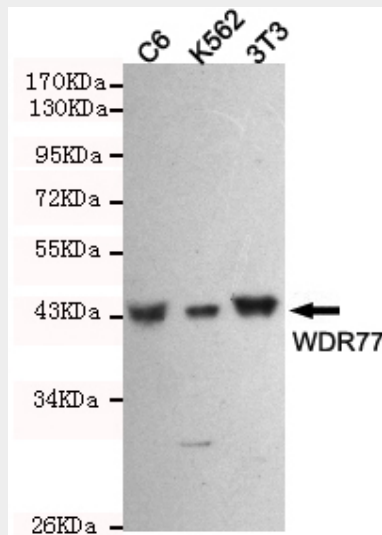
Highly expressed in heart, skeletal muscle, spleen, testis, uterus, prostate and thymus. In testis, expressed in germ cells and Leydig cells, but not in peritubular myocytes, nor in Sertoli cells. Expressed in prostate cancers, in seminomas and in Leydig cell tumors.

#### WDR77 Antibody - Protocols

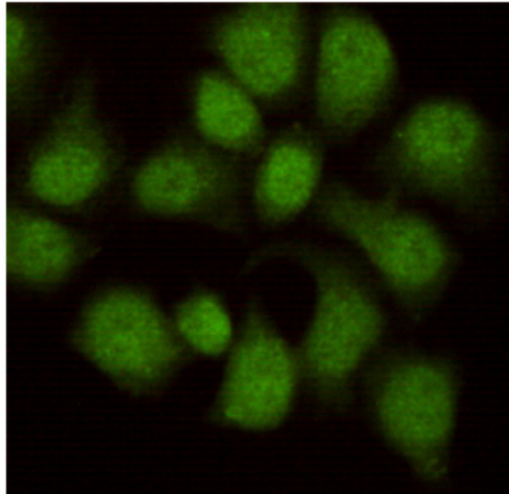
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### WDR77 Antibody - Images



Western blot detection of WDR77 in C6,3T3 and K562 cell lysates using WDR77 mouse mAb (1:1000 diluted).Predicted band size:42KDa.Observed band size:42KDa.



Immunocytochemistry staining of HeLa cells fixed in 1% Paraformaldehyde and then permeabilized in 0.1% Triton X-100, next using WDR77 mouse mAb (dilution 1:100).

#### **WDR77 Antibody - Background**

Non-catalytic component of the 20S PRMT5-containing methyltransferase complex, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins and histones. 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 20S PRMT5-containing methyltransferase complex also methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage.

#### **WDR77 Antibody - References**

Friesen W.J., et al. *J. Biol. Chem.* 277:8243-8247(2002).  
Hosohata K., et al. *Mol. Cell. Biol.* 23:7019-7029(2003).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Yamada S., et al. *Oncogene* 23:5901-5911(2004).  
Gregory S.G., et al. *Nature* 441:315-321(2006).