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# KD-Validated Anti-WD Repeat Domain 77 Mouse Monoclonal Antibody

**Mouse monoclonal antibody**
**Catalog # AGI2093**

## Specification

### KD-Validated Anti-WD Repeat Domain 77 Mouse Monoclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | Q9BQA1 |
| Reactivity | **Human** |
| Clonality | **Monoclonal** |
| Isotype | **Mouse IgG1** |
| Calculated MW | **Predicted, 37 kDa, observed, 42 kDa KDa** |
| Gene Name | **WDR77** |
| Aliases | **WDR77; WD Repeat Domain 77; MEP50; Methylosome Protein 50; P44; WD Repeat-Containing Protein 77; Androgen Receptor Cofactor P44; Methylosome Protein WDR77; P44/Mep50; MEP-50; Testis Tissue Sperm-Binding Protein Li 44a; Nbla10071; HKMT1069; WD45** |
| Immunogen | **Recombinant protein of human WDR77** |

### KD-Validated Anti-WD Repeat Domain 77 Mouse Monoclonal Antibody - Additional Information

| | |
|---|---|
| Gene ID | **79084** |

**Other Names**
Methylosome protein WDR77, Androgen receptor cofactor p44, Methylosome protein 50 {ECO:0000312|HGNC:HGNC:29652}, MEP-50, WD repeat-containing protein 77 {ECO:0000312|HGNC:HGNC:29652}, p44/Mep50, WDR77 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=29652" target="_blank">HGNC:29652</a>)

### KD-Validated Anti-WD Repeat Domain 77 Mouse Monoclonal 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).

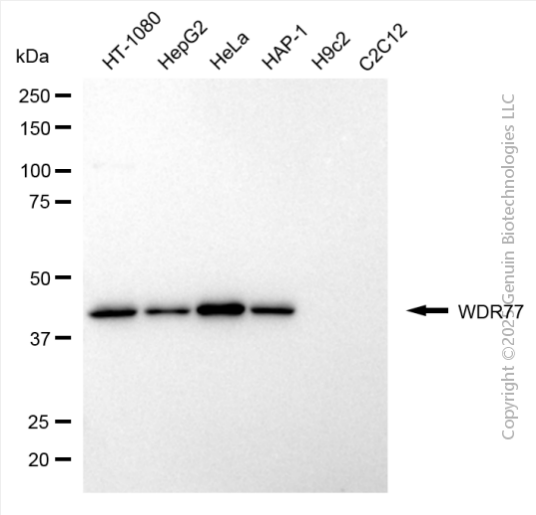
**Tissue Location**
Highly expressed in heart, skeletal muscle, spleen, testis, uterus, prostate and thymus. In testis, expressed in germ cells and Leydig cells, but not in peritubular myocytes, nor in Sertoli cells. Expressed in prostate cancers, in seminomas and in Leydig cell tumors.

## KD-Validated Anti-WD Repeat Domain 77 Mouse Monoclonal 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 Cytomety
- Cell Culture

## KD-Validated Anti-WD Repeat Domain 77 Mouse Monoclonal Antibody - Images




Western blotting analysis using anti-WDR77 antibody (Cat#AGI2093). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-WDR77 antibody (Cat#AGI2093, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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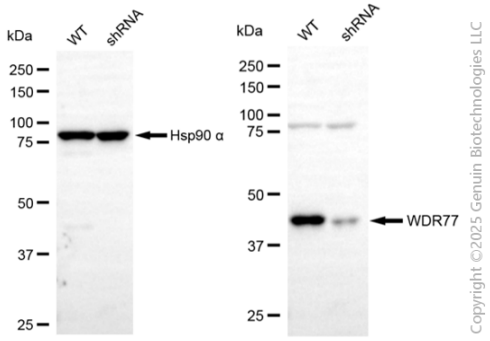


Western blotting analysis using anti-WDR77 antibody (Cat#AGI2093). WDR77 expression in wild-type (WT) and WDR77 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-WDR77 antibody (Cat#AGI2093, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.