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WDR77 / MEP50 Antibody (clone 3F10)

Mouse Monoclonal Antibody
Catalog # ALS13514

Specification

WDR77 / MEP50 Antibody (clone 3F10) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	Q9BQA1
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**37kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A**

WDR77 / MEP50 Antibody (clone 3F10) - 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

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions
WDR77 / MEP50 Antibody (clone 3F10) is for research use only and not for use in diagnostic or therapeutic procedures.

WDR77 / MEP50 Antibody (clone 3F10) - 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:11756452). 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:23071334).

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).

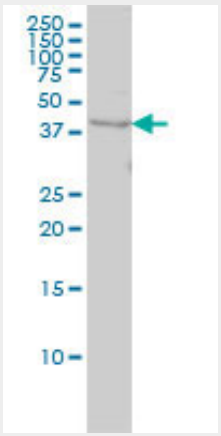
Tissue Location
Highly expressed in heart, skeletal muscle, spleen, testis, uterus, prostate and thymus. In testis, expressed in germ cells and Leydig cells, but not in peritubular myocytes, nor in Sertoli cells. Expressed in prostate cancers, in seminomas and in Leydig cell tumors.

WDR77 / MEP50 Antibody (clone 3F10) - Protocols

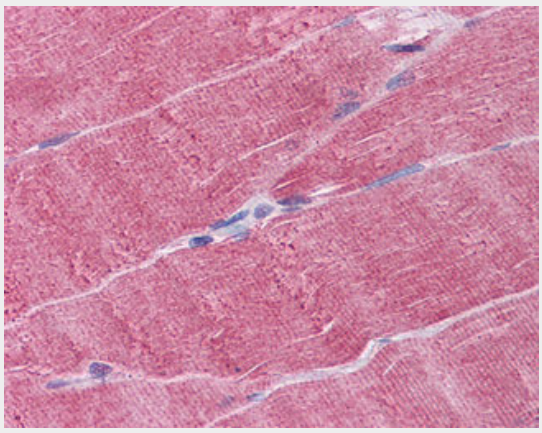
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

WDR77 / MEP50 Antibody (clone 3F10) - Images



WDR77 monoclonal antibody (M01), clone 3F10 Western blot of WDR77 expression in HeLa.



Anti-WDR77 antibody IHC of human skeletal muscle.

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WDR77 / MEP50 Antibody (clone 3F10) - 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 / MEP50 Antibody (clone 3F10) - References

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