



Rabbit Anti-WDR77 antibody

SL8636R

Product Name:	WDR77
Chinese Name:	WD重复蛋白77抗体
Alias:	2610312E17Rik; Androgen receptor cofactor p44; C79984; HKMT1069; MEP 50; MEP-50; MEP50; MEP50_HUMAN; Methylosome protein 50; MGC2722; Nbla10071; p44; p44/Mep50; RGD1310479; RP11 552M11.3; WD repeat containing protein 77; WD repeat domain 77; WD repeat-containing protein 77; WDR77.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human WDR77:251-342/342
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	WDR77 is a component of the 20S PRMT5 (MIM 604045)-containing methyltransferase complex, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins (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]).[supplied by OMIM, Mar 2008]

Function:

Non-catalytic component of the 20S PRMT5-containing methyltransferase complex, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins. 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.

Subunit:

Component of the methylosome, a 20S complex containing at least PRMT5, CLNS1A and WDR77. Directly interacts with PRMT5, as well as with several Sm proteins, including SNRPB and SNRPD2 and, more weakly, SNRPD3 and SNRPE. Forms a compact hetero-octamer with PRMT5, decorating the outer surface of a PRMT5 tetramer. Interacts with SUZ12 and histone H2A/HIST2H2AC, but not with histones H2B, H3 nor H4. Interacts with CTDP1 and LSM11. Interacts with APEX1, AR and NKX3-1.

Subcellular Location:

Nucleus. Cytoplasm. 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.

Tissue Specificity:

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.

Similarity:

Contains 5 WD repeats.

SWISS:

Q9BQA1

Gene ID:

79084

Database links:

[Entrez Gene: 79084](#) Human

[Entrez Gene: 70465](#) Mouse

[Entrez Gene: 310769](#) Rat

[Omin: 611734](#) Human

[SwissProt: Q9BQA1](#) Human

[SwissProt: Q99J09](#) Mouse

[SwissProt: Q4QR85](#) Rat

[Unigene: 204773](#) Human

[Unigene: 5110](#) Mouse

[Unigene: 14128](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

www.sunlongbiotech.com