

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

Mouse monoclonal antibody
Catalog # AGI2092

Product Information

Application	WB
Primary Accession	Q9BQA1
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13355
Calculated MW	36724
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

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 (HGNC:29652)

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.

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