

Product Name: KD-Validated WD Repeat Domain 77 Mouse Monoclonal Antibody
Catalog #: KVA00506

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 36.7kDa

Antigen Information

Gene Name	WDR77
Alternative Names	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
Gene ID	79084.0
SwissProt ID	Q9BQA1
Immunogen	Recombinant protein of human WDR77

Background

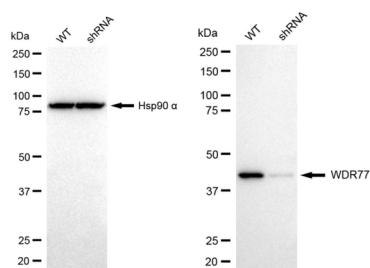
The protein encoded by this gene is an androgen receptor coactivator that forms a complex with protein arginine

methyltransferase 5, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins. The encoded protein may be involved in the early stages of prostate cancer, with most of the protein being nuclear-localized in benign cells but cytoplasmic in cancer cells. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

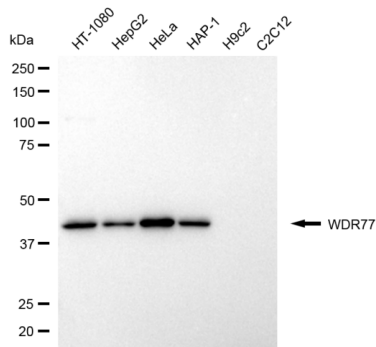
Research Area

Cell Biology

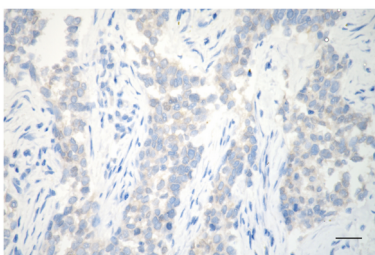
Image Data



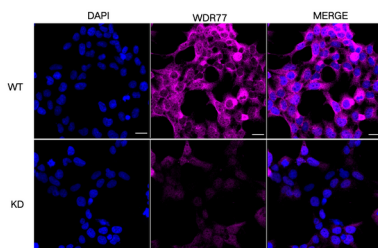
Western blotting analysis using WDR77 antibody (KVA00506). WDR77 expression in wild-type (WT) and WDR77 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with WDR77 antibody (KVA00506, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



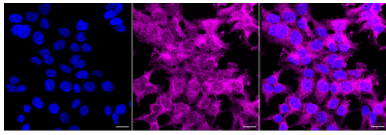
Western blotting analysis using WDR77 antibody (KVA00506). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with WDR77 antibody (KVA00506, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



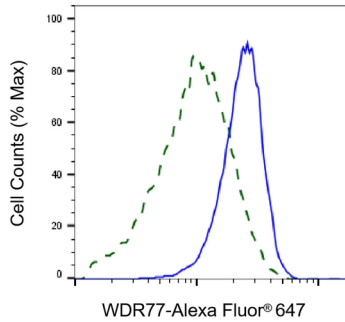
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using WDR77 antibody (KVA00506, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



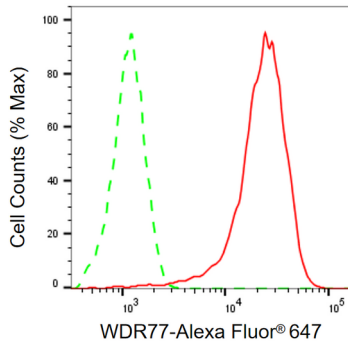
Immunocytochemical staining of HeLa cells using WDR77 antibody (KVA00506, 1:1,000). Top panel: wild-type (WT); Bottom panel: WDR77 shRNA knockdown (KD). Nuclei were stained blue with DAPI; WDR77 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HeLa cells with WDR77 antibody (KVA00506, 1:1,000). Nuclei were stained blue with DAPI; WDR77 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of WDR77 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with WDR77 antibody (KVA00506, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of WDR77 expression in HeLa cells using WDR77 antibody (KVA00506, 1:2,000). Green, isotype control; red, WDR77.