abcam

Product datasheet

# Anti-WDR77 antibody [EPR10709(2)] - C-terminal ab190361

Recombinant RabMAb

8 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-WDR77 antibody [EPR10709(2)] - C-terminal |
| **Description** | Rabbit monoclonal [EPR10709(2)] to WDR77 - C-terminal |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** Flow Cyt (Intra), IP, ICC/IF, WB, IHC-P |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | LnCaP, 293T, HeLa, Saos-2, C6, Raw 264.7, PC-12 and NIH-3T3 cell lysates, Human adenocarcinoma of colon tissue. A673 and 293T cells, |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR10709(2) |

**Isotype** IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab190361 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt (Intra)** | | 1/70.<br>**ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| **IP** | | 1/40. |
| **ICC/IF** | | 1/50. |
| **WB** | | 1/1000 - 1/10000. Detects a band of approximately 42 kDa (predicted molecular weight: 37 kDa). |
| **IHC-P** | | 1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

## Target

**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.

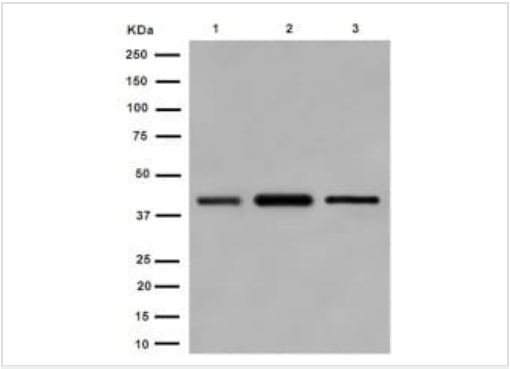
**Tissue specificity** Highly expressed in heart, skeletal muscle, spleen, testis, uterus, prostate and thymus. In testis, expressed in germ cells and Leydig cells, but not in peritubular myocytes, nor in Sertoli cells. Expressed in prostate cancers, in seminomas and in Leydig cell tumors.

**Sequence similarities** Contains 5 WD repeats.

**Developmental stage** Expressed in Leydig cells during fetal testicular development, especially during the second semester. Germ cells expression is detected as early as 10 weeks of gestation.

**Cellular localization** 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.

## Images




Western blot - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

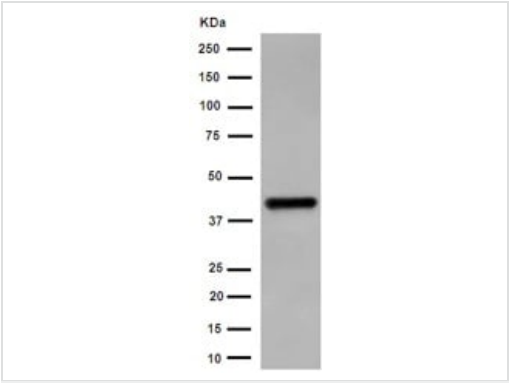
**All lanes :** Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361) at 1/10000 dilution

**Lane 1 :** LnCaP cell lysate
**Lane 2 :** 293T cell lysate
**Lane 3 :** HeLa cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 37 kDa
**Observed band size:** 42 kDa

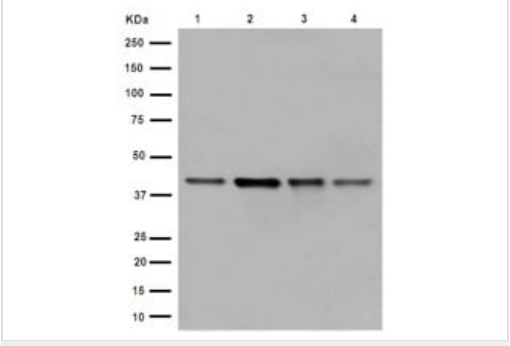



Western blot - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361) at 1/1000 dilution + Saos-2 cell lysate at 20 µg

**Secondary**
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 37 kDa
**Observed band size:** 42 kDa




Western blot - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

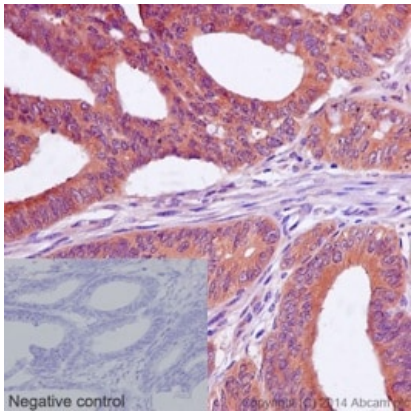
**All lanes :** Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361) at 1/1000 dilution

**Lane 1 :** C6 cell lysate
**Lane 2 :** RAW 264.7 cell lysate
**Lane 3 :** PC-12 cell lysate
**Lane 4 :** NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

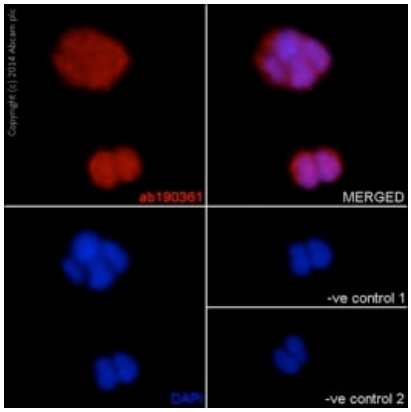
**Predicted band size:** 37 kDa
**Observed band size:** 42 kDa




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

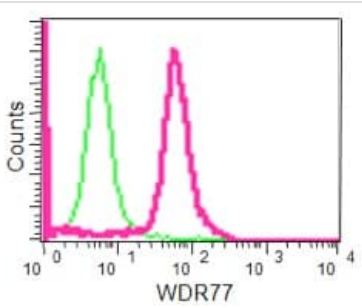
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human adenocarcinoma of the colon labeling WDR77 with ab190361 at 1/50 and HRP polymer for Rabbit IgG. Counterstained with Hematoxylin. Negative control also shown.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



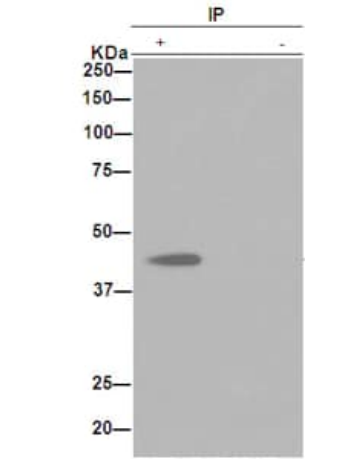

Immunocytochemistry/ Immunofluorescence - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

Immunofluorescence analysis of A673 cells fixed in 4% paraformaldehyde labeling WDR77 with ab190361 at 1/50 dilution and Goat anti rabbit IgG (Alexa Fluor® 555) 1/200. Counterstained with DAPI. Negative controls also shown.



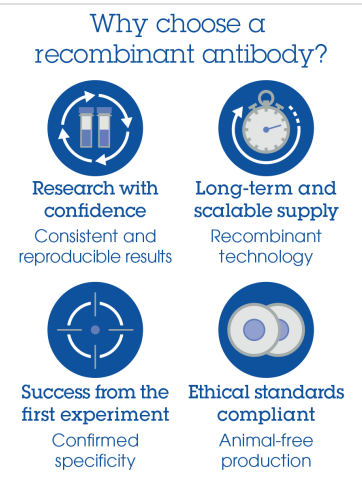

Flow Cytometry (Intracellular) - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed HeLa cells labeling WDR77 at 1/70 dilution andGoat anti rabbit IgG (FITC) at 1/150. Rabbit monoclonal IgG used as isotype control.




Immunoprecipitation - Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

Immunoprecipitation of HeLa cells labeling WDR77 with ab190361 at 1/50 and Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/5000 (+) or PBS (-)




Anti-WDR77 antibody [EPR10709(2)] - C-terminal (ab190361)

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