abcam

# ab250560

# Anti-RWDD1 antibody [EPR13715(B)] - BSA and Azide free

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Carrier free** | Yes |
| **Clone number** | EPR13715(B) |
| **Purification technique** | Affinity purification |

## Reactivity data

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## Target data

See full target information RWDD1

| | |
|---|---|
| **Function** | Protects DRG2 from proteolytic degradation (By similarity). May function as a coactivator of the AR/androgen receptor transcription factor during development (PubMed:22406838). |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze |

## Notes

ab250560 is the carrier-free version of ab181994.

**Patented technology**

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

**Conjugation ready**

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

**Compatibility**

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | RWDD1 also known as RWD domain-containing protein 1 is a protein with a molecular mass of approximately 12 kDa. This protein is expressed in various tissues including the brain liver and kidney. Mechanically RWDD1 interacts with other proteins through its RWD domain which is a conserved region facilitating protein-protein interactions. This domain helps RWDD1 participate in cellular processes by serving as a regulatory subunit in protein complexes. |
| **Biological function summary** | RWDD1 influences cellular activities due to its role in modulating protein degradation pathways. It is part of protein complexes that are involved in tagging proteins for degradation. This modulation affects many cellular processes such as cell cycle control and stress responses. The protein may work closely with proteasomal subunit proteins suggesting it has a specific function in maintaining cellular protein homeostasis. |
| **Pathways** | RWDD1 is actively involved in the ubiquitin-proteasome system which is a significant pathway for protein degradation. It interacts with proteins involved in ubiquitination processes which tag proteins for breakdown. Additionally RWDD1 plays a role in cellular response pathways to oxidative stress through associations with proteins like Nrf2 a well-known regulator of the antioxidant response. |
| **Associated diseases and disorders** | Dysregulation of RWDD1 may link to cancer and neurodegenerative diseases. Abnormal RWDD1 function can lead to impaired protein degradation contributing to the accumulation of damaged or misfolded proteins a common feature in these conditions. Associations with proteins such as p53 in cancer and links to tau proteins in Alzheimer's disease highlight its potential involvement in disease mechanisms. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

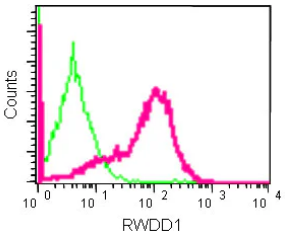
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

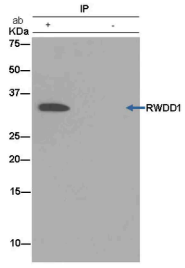
## 3 product images




### Flow Cytometry (Intracellular) - Anti-RWDD1 antibody [EPR13715(B)] - BSA and Azide free (ab250560)

RWDD1 Flow Cytometry (Intracellular) staining using rabbit Anti-RWDD1 antibody

This data was developed using ab181994, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Hela cells labeling RWDD1 with ab181994 at a 1/10 dilution, or with rabbit IgG isotype control. Goat anti rabbit IgG (FITC) at a 1/150 dilution was used as a secondary antibody.

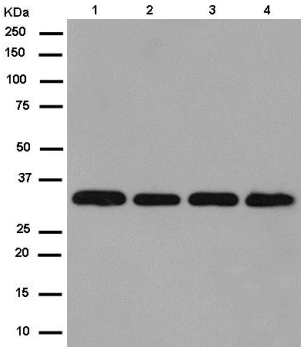



### Immunoprecipitation - Anti-RWDD1 antibody [EPR13715(B)] - BSA and Azide free (ab250560)

This data was developed using ab181994, the same antibody clone in a different buffer formulation.
Immunoprecipitation of Jurkat labeling RWDD1 using ab181994 at a 1/60 dilution (lane 1). Lane 2 shows the negative control. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as a secondary antibody at a dilution of 1/1500. Blocking/dilution buffer and concentration: 5% NFDM/TBST

All lanes:
Immunoprecipitation - Anti-RWDD1 antibody [EPR13715(B)] (ab181994)

Predicted band size: 28 kDa




### Western blot - Anti-RWDD1 antibody [EPR13715(B)] - BSA and Azide free (ab250560)

RWDD1 Western blot staining using rabbit Anti-RWDD1 antibody

This data was developed using ab181994, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-RWDD1 antibody [EPR13715(B)] (ab181994) at 1/50000 dilution

Lane 1:
Jurkat cell lysate at 20 µg

Lane 2:
Hela cell lysate at 20 µg

Lane 3:
293 cell lysate at 20 µg

Lane 4:
A673 cell lysate at 20 µg

Secondary

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

Predicted band size: 28 kDa

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.