abcam

**ab183310**

# Anti-C19orf2 antibody [SP215] - C-terminal

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | SP215 |
| **Purification technique** | Affinity purification Protein A/G |
| **Concentration** | 0.869 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |
| **Purification notes** | Purified from TCS by protein A/G. |

## Reactivity data

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/100 |

| | |
|---|---|
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/100 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

### Predicted

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

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/100 |
| **Notes** | Perform Antigen Retrieval by boiling tissue sections in EDTA buffer, pH 8.0 for 10 min followed by cooling at room temperature for 20 min. |

### Expected

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

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

# Target data

See full target information URI1

| | |
|---|---|
| **Function** | Involved in gene transcription regulation. Acts as a transcriptional repressor in concert with the corepressor UXT to regulate androgen receptor (AR) transcription. May act as a tumor suppressor to repress AR-mediated gene transcription and to inhibit anchorage-independent growth in prostate cancer cells. Required for cell survival in ovarian cancer cells. Together with UXT, associates with chromatin to the NKX3-1 promoter region. Antagonizes transcriptional modulation via hepatitis B virus X protein. Plays a central role in maintaining S6K1 signaling and BAD phosphorylation under normal growth conditions thereby protecting cells from potential deleterious effects of sustained S6K1 signaling. The URI1-PPP1CC complex acts as a central component of a negative feedback mechanism that counteracts excessive S6K1 survival signaling to BAD in response to growth factors. Mediates inhibition of PPP1CC phosphatase activity in mitochondria. Coordinates the regulation of nutrient-sensitive gene expression availability in a mTOR-dependent manner. Seems to be a scaffolding protein able to assemble a prefoldin-like complex that contains PFDs and proteins with roles in transcription and ubiquitination. |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Conditional Ambient |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle |

## Notes

**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.

## Supplementary info

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

| | |
|---|---|
| **Activity summary** | The protein C19orf2 also known as Myeloid Leukemia Single-stranded DNA-binding Protein (MLSBP) has a molecular mass of approximately 25 kDa. This protein is expressed in various tissues with a particularly high presence in myeloid cells. Mechanically C19orf2 binds to single-stranded DNA and RNA due to its presence in the cell nucleus implicating its involvement in nucleic acid interactions and regulation. |
| **Biological function summary** | The protein engages in processes concerning genomic stability and the proper function of the DNA repair system. C19orf2 can interact as a part of a larger protein complex involved in recognizing and binding to abnormal DNA structures. This involvement suggests its participation in maintaining genomic integrity especially in myeloid cells which are important for the immune system's defense mechanisms. |
| **Pathways** | The C19orf2 protein integrates into the DNA damage response pathway. This pathway includes proteins like ATM and ATR which initiate signals in response to DNA damage. C19orf2 may therefore contribute to modulating these signals ensuring a proper response to genotoxic stress. Additionally C19orf2 plays a role in the myeloid differentiation pathway interacting with factors like PU.1 influencing the maturation and function of myeloid cells. |
| **Associated diseases and disorders** | The dysfunction or aberrant expression of C19orf2 has been linked to acute myeloid leukemia (AML) and other hematopoietic disorders. Structural changes or expression levels of this protein might correlate with the proliferation and survival of leukemic cells. Furthermore C19orf2's relation to DNA repair pathways implicates its relevance in conditions associated with defective DNA repair processes potentially involving proteins like BRCA1 in hereditary breast and ovarian cancer syndromes. |

## 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**

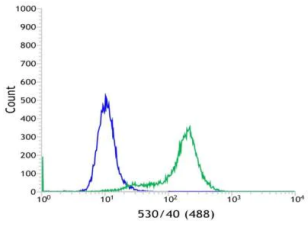
We do not recommend this combination. It is not covered by our product promise.

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.

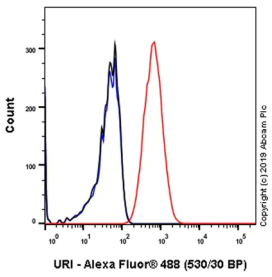
## 4 product images




### Flow Cytometry (Intracellular) - Anti-C19orf2 antibody [SP215] - C-terminal (ab183310)

C19orf2 Flow Cytometry (Intracellular) staining using rabbit Anti-C19orf2 antibody

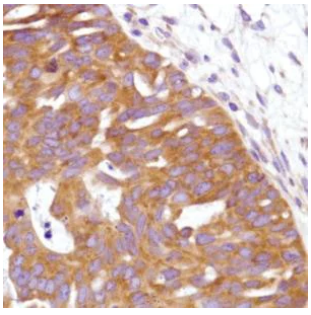
Flow cytometric analysis of Human 293 cells labeling C19orf2 using ab183310 at 1/100 (green) compared to a negative control rabbit IgG (blue).




### Flow Cytometry (Intracellular) - Anti-C19orf2 antibody [SP215] - C-terminal (ab183310)

C19orf2 Flow Cytometry (Intracellular) staining using rabbit Anti-C19orf2 antibody

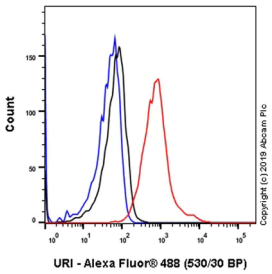
Flow Cytometry analysis of 293T (Human embryonic kidney epithelial cell) cells labeling C19orf2 with purified ab183310 at 1/80 dilution (1.09 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) / Black. Unlabeled control - Unlabelled cells / blue.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-C19orf2 antibody [SP215] - C-terminal (ab183310)

C19orf2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-C19orf2 antibody

Immunohistochemical analysis of Human ovarian adenocarcinoma tissue labeling C19orf2 using ab183310 at a 1/100 dilution.




# Flow Cytometry (Intracellular) - Anti-C19orf2 antibody [SP215] - C-terminal (ab183310)

C19orf2 Flow Cytometry (Intracellular) staining using rabbit Anti-C19orf2 antibody

Flow Cytometry analysis of C6 (Rat glial tumor glial cell) cells labeling C19orf2 with purified ab183310 at 1/80 dilution (1.09 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) / Black. Unlabeled control - Unlabelled cells / blue.

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