

# WDR59 Antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15996

## Product Information

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| <b>Application</b>       | WB                                                             |
| <b>Primary Accession</b> | <a href="#">Q6PJI9</a>                                         |
| <b>Other Accession</b>   | <a href="#">NM_030581</a> , <a href="#">NP_085058</a>          |
| <b>Reactivity</b>        | Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine      |
| <b>Predicted</b>         | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| <b>Host</b>              | Rabbit                                                         |
| <b>Clonality</b>         | Polyclonal                                                     |
| <b>Calculated MW</b>     | 109793                                                         |

## Additional Information

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| <b>Gene ID</b>                      | 79726                                                                                                                                                                                                |
| <b>Other Names</b>                  | WD repeat-containing protein 59, WDR59, KIAA1923                                                                                                                                                     |
| <b>Format</b>                       | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                                                                    |
| <b>Reconstitution &amp; Storage</b> | Add 50 $\mu$ l of distilled water. Final Anti-WDR59 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles. |
| <b>Precautions</b>                  | WDR59 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                 |

## Protein Information

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| <b>Name</b>     | WDR59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Function</b> | As a component of the GATOR2 complex, functions as an activator of the amino acid-sensing branch of the mTORC1 signaling pathway (PubMed: <a href="#">23723238</a> , PubMed: <a href="#">25457612</a> , PubMed: <a href="#">27487210</a> , PubMed: <a href="#">35831510</a> , PubMed: <a href="#">36528027</a> , PubMed: <a href="#">36577058</a> ). The GATOR2 complex indirectly activates mTORC1 through the inhibition of the GATOR1 subcomplex (PubMed: <a href="#">23723238</a> , PubMed: <a href="#">27487210</a> , PubMed: <a href="#">35831510</a> , PubMed: <a href="#">36528027</a> ). GATOR2 probably acts as an E3 ubiquitin-protein ligase toward GATOR1 (PubMed: <a href="#">36528027</a> ). In the presence of abundant amino acids, the GATOR2 complex mediates ubiquitination of the NPRL2 core component of the GATOR1 complex, leading to GATOR1 inactivation (PubMed: <a href="#">36528027</a> ). In the absence of amino acids, GATOR2 is inhibited, activating the GATOR1 complex (PubMed: <a href="#">25457612</a> , PubMed: <a href="#">27487210</a> ). |

## Cellular Location

Lysosome membrane.

## Background

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As a component of the GATOR2 complex, inhibits GATOR1 complex, an inhibitor of the amino acid-sensing branch of the TORC1 pathway.

## References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).

Wan D.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004).

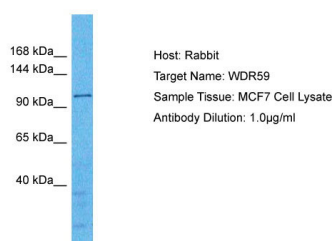
Nagase T.,et al.DNA Res. 8:179-187(2001).

Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).

## Images

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Host: Rabbit

Target Name: WDR59

Sample Tissue: MCF7 Whole cell lysate

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Antibody Dilution: 1.0µg/ml  
WDR59 is strongly supported  
by BioGPS gene expression data to be expressed in  
Human MCF7 cells

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