

WDR59 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15996**Specification**

WDR59 Antibody - C-terminal region - Product Information

Application	WB
Primary Accession	Q6PJI9
Other Accession	NM_030581 , NP_085058
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109kDa KDa

WDR59 Antibody - C-terminal region - Additional Information**Gene ID** 79726**Other Names**

WD repeat-containing protein 59, WDR59, KIAA1923

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 µl 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.

Precautions

WDR59 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

WDR59 Antibody - C-terminal region - Protein Information**Name** WDR59**Function**

As a component of the GATOR2 complex, functions as an activator of the amino acid-sensing branch of the mTORC1 signaling pathway (PubMed:[25457612](http://www.uniprot.org/citations/25457612), PubMed:[23723238](http://www.uniprot.org/citations/23723238), PubMed:[27487210](http://www.uniprot.org/citations/27487210), PubMed:[36528027](http://www.uniprot.org/citations/36528027), PubMed:[36577058](http://www.uniprot.org/citations/36577058), PubMed:[35831510](http://www.uniprot.org/citations/35831510)). The GATOR2

complex indirectly activates mTORC1 through the inhibition of the GATOR1 subcomplex (PubMed:23723238, PubMed:27487210, PubMed:36528027, PubMed:35831510). GATOR2 probably acts as an E3 ubiquitin-protein ligase toward GATOR1 (PubMed:36528027). 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:36528027). In the absence of amino acids, GATOR2 is inhibited, activating the GATOR1 complex (PubMed:25457612, PubMed:27487210).

Cellular Location

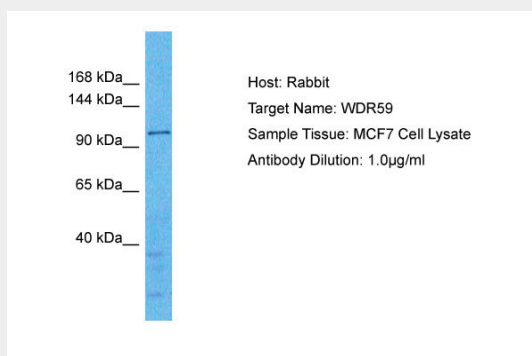
Lysosome membrane.

WDR59 Antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

WDR59 Antibody - C-terminal region - Images



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

WDR59 Antibody - C-terminal region - Background

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

WDR59 Antibody - C-terminal region - References

- 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).