

WDR59 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP5087b**Specification**

WDR59 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q6PJ19](#)**WDR59 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 79726**Other Names**

WD repeat-containing protein 59, WDR59, KIAA1923

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WDR59 Antibody (C-term) Blocking Peptide - 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](http://www.uniprot.org/citations/23723238), PubMed: [27487210](http://www.uniprot.org/citations/27487210), PubMed: [36528027](http://www.uniprot.org/citations/36528027), PubMed: [35831510](http://www.uniprot.org/citations/35831510)). GATOR2 probably acts as an E3 ubiquitin-protein ligase toward GATOR1 (PubMed: [36528027](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

WDR59 Antibody (C-term) Blocking Peptide - Images**WDR59 Antibody (C-term) Blocking Peptide - References**

Dastani, Z., et al. Eur. J. Hum. Genet. 18(3):342-347(2010)Fellay, J., et al. PLoS Genet. 5 (12), E1000791 (2009) Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004)