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

Specification

WDR59 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q6PJI9

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, PubMed:23723238, PubMed:27487210, PubMed:36528027, PubMed:36577058, PubMed: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-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)