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WDR59 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15996

Product Information

Application	WB
Primary Accession	Q6PJI9
Other Accession	NM_030581, NP_085058
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109793

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

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:23723238, PubMed:25457612, PubMed:27487210, PubMed:35831510, PubMed:36528027, PubMed:36577058). The GATOR2 complex indirectly activates mTORC1 through the inhibition of the GATOR1 subcomplex (PubMed:23723238, PubMed:27487210, PubMed:35831510, PubMed:36528027). 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.

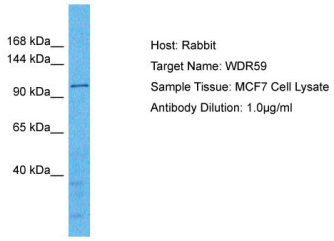
Background

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

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).

Images



Host: Rabbit
Target Name: WDR59
Sample Tissue: MCF7 Whole cell lysate
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Antibody Dilution: 1.0µg/mlWDR59 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'.