Anti-LPP3 [046]

Catalogue number: 156376
Sub-type: Primary antibody
Images:

Contributor

Inventor:
Institute: University of Illinois Chicago
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-LPP3 [046]

Alternate name: PLPP3, Dri42, PAP2B, VCIP, PPAP2B or phospholipid phosphatase 3

Class: Monoclonal
Conjugate: Unconjugated
Description: An antibody against the extracellular domain of LPP3 inhibits cell-cell interactions and angiogenesis in vitro. In addition, LPP3 not only catalyzes the dephosphorylation of the bioactive lipid sphingosine-1-phosphate (S1P) to generate sphingosine but also may regulate embryonic development and angiogenesis via the Wnt pathway. LPP3 also has the ability to potentiate tumor growth by amplifying B-catenin and CYCLIN-D1 activities. Thus, LPP3 is a potential target for inhibiting the growth of glioblastoma, an aggressive type of brain tumor, and other LPP3-expressing tumors. This may serve as a link in the acquisition of proliferative, invasive, and metastatic phenotypes.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity: Human ; Mouse
Selectivity:
Host: Mouse
Immunogen: A modified synthetic peptide (YRCRGDDSKVQEARKSFFc-KLH) corresponding to 179-196 of human LPP3 conjugated to keyhole limpet hemocyanin
Immunogen UNIPROT ID:
Sequence:
Growth properties:

Production details:
Formulation:
Recommended controls: IgG1
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Lipid Phosphate Phosphohydrolase 3

Target alternate names:

Target background: An antibody against the extracellular domain of LPP3 inhibits cell-cell interactions and angiogenesis in vitro. In addition, LPP3 not only catalyzes the dephosphorylation of the bioactive lipid sphingosine-1-phosphate (S1P) to generate sphingosine but also may regulate embryonic development and angiogenesis via the Wnt pathway. LPP3 also has the ability to potentiate tumor growth by amplifying B-catenin and CYCLIN-D1 activities. Thus, LPP3 is a potential target for inhibiting the growth of glioblastoma, an aggressive type of brain tumor, and other LPP3-expressing tumors. This may serve as a link in the acquisition of proliferative, invasive, and metastatic phenotypes.

Molecular weight:

Ic50:

Applications

Application: FACS ; IP ; WB
Application notes:

Handling

Format: Liquid
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Sandoval et al. 2006. Exp Cell Res. 312(13):2465-75. PMID: 16730350.