

LANCL2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58308

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9NS86
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50854
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LANCL2
Epitope Specificity	331-430/460
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. Cell membrane. Note=Localizes to the juxta-nuclear vesicles. Associates with the cortical actin cytoskeleton. Cholesterol depletion by methyl-beta-cyclodextrin causes partial dissociation from the cell membrane in vitro and an enhanced cell detachment from the matrix in vivo. Membrane-association is important for the increased cellular sensitivity to an anticancer drug (adriamycin).
SIMILARITY	Belongs to the LanC-like protein family.
SUBUNIT	Interacts with an array of inositol phospholipids such as phosphatidylinositol 3-phosphate (PI3P), phosphatidylinositol 4-phosphate (PI4P) and phosphatidylinositol 5-phosphate (PI5P). PIP-binding enhances membrane association.
Post-translational modifications	Myristoylated. Essential for membrane association.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	bs-5765P is one synthetic peptide derived from human LANCL2. LANCL2 belongs to the LanC like protein family. It is expressed in the brain and testis. LANCL2 is a bystander gene coamplified and overexpressed with epidermal growth factor receptor (EGFR) in 20% of all glioblastomas. Its exogenous expression in a sarcoma cell line decreases the expression of ABCB1 (P glycoprotein 1) and increases cellular sensitivity to an anticancer drug (adriamycin).

Additional Information

Gene ID	55915
Other Names	LanC-like protein 2, Testis-specific adriamycin sensitivity protein, LANCL2, GPR69B, TASP

Target/Specificity	Expressed in brain and testis.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LANCL2
Synonyms	GPR69B, TASP
Function	Necessary for abscisic acid (ABA) binding on the cell membrane and activation of the ABA signaling pathway in granulocytes.
Cellular Location	Nucleus. Cytoplasm. Cell membrane Note=Localizes to the juxta-nuclear vesicles (PubMed:16979580) Associates with the cortical actin cytoskeleton (PubMed:16979580) Cholesterol depletion by methyl-beta-cyclodextrin causes partial dissociation from the cell membrane in vitro and an enhanced cell detachment from the matrix in vivo (PubMed:16979580). Membrane-association is important for the increased cellular sensitivity to an anticancer drug (adriamycin) (PubMed:16979580)
Tissue Location	Expressed in brain and testis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.