抗人WIPI1多克隆抗体

Anti-Human WIPI1 Polyclonal Antibody

货号：RB9T37037396

在您使用本产品前请认真阅读说明书，这对您顺利完成实验很有帮助。

产品编码
RB9T37037396

中文名称
抗人WIPI1多克隆抗体

英文名称
Anti-Human WIPI1 Polyclonal Antibody

形态
Liquid

内毒素水平
Please contact with the lab for this information.

应用
ELISA, IHC, WB

登录号
Q5MNZ9

宿主种属
Rabbit

克隆性
Polyclonal

抗体亚型
IgG

纯化方式
Purified by antigen affinity column.

种属反应性
Human, Mouse

靶标
Atg18 protein homolog, WD repeat domain phosphoinositide-interacting protein 1, WD40 repeat protein interacting with phosphoinositides of 49 kDa, WIPI 49 kDa, WIPI-1, WIPI1, WIPI49

免疫原
E. coli - derived recombinant Human WIPI1 (Leu17-Leu360).

产品使用说明

ELISA:1:5000-1:20000;IHC:1:50-1:500;WB:1:500-1:2000

背景信息

WD repeat domain phosphoinositide-interacting protein 1 (WIPI1) is a ~48 kDa protein. Component of the autophagy machinery that controls the major intracellular degradation process by which cytoplasmic materials are packaged into autophagosomes and delivered to lysosomes for degradation. Plays an important role in starvation- and calcium-mediated autophagy, as well as in mitophagy. Functions downstream of the ULK1 and PI3-kinases that produce phosphatidylinositol 3-phosphate (PtdIns3P) on membranes of the endoplasmic reticulum once activated. Binds phosphatidylinositol 3-phosphate (PtdIns3P), and maybe other phosphoinositides including PtdIns3,5P2 and PtdIns5P, and is recruited to phagophore assembly sites at the endoplasmic reticulum membranes. There, it assists WIPI2 in the recruitment of ATG12-ATG5-ATG16L1, a complex that directly controls the elongation of the nascent autophagosomal membrane.

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2. Grotemeier, A. et al. (2010) Cellular signalling 22, 914-25. PMID: 20114074

3. Geeraert, C. et al. (2010) The Journal of biological chemistry 285, 24184-94. PMID: 20484055

4. Itakura, E. et al. (2010) Autophagy 6, 764-76. PMID: 20639694

5. Gaugel, A. et al. (2012) Journal of molecular signaling 7, 16. PMID: 23088497

6. Bakula, D. et al. (2017) Nature communications 8, 15637. PMID: 28561066

7. Maeda, S. et al. (2019) eLife 8. PMID: 31271352

8. Kojima, W. et al. (2021) Autophagy 17, 2011-2036. PMID: 33499712

储存缓冲液

0.01M PBS, pH 7.4, 50% Glycerol, 0.05% Proclin 300.

For research use only