3/23/24, 1:03 PM

Background

References

Autophagy Vesicle Nucleation Antibody Sampler Kit 1 Kit (8 x 20 microliters)			Orders:	Cell Signaling FECHNOLOGY® 877-616-CELL (2355 orders@cellsignal.com	
				Support:	877-678-TECH (8324
1 Kit (8 x 20 microli	iters)			Web:	info@cellsignal.con cellsignal.con
	iar Upp in Disgupotic Drocod		3 T	rask Lane Danvers	Massachusetts 01923 USA
For Research Use Only. Not f Product Includes	_	Product #	Quantity	Mol. Wt	Isotype/Source
PI3 Kinase Class III (D9A5) Rabb		4263	20 µl	100 kDa	Rabbit
PIK3R4 Antibody		14580	20 µl	153 kDa	Rabbit
Beclin-1 (D40C5) Rabbit mAb		3495	20 µl	60 kDa	Rabbit IgG
tg14 Antibody		5504	20 µl	65 kDa	Rabbit
IVRAG (D2Q1Z) Rabbit mAb		13115	20 µl	90 kDa	Rabbit IgG
ubicon (D9F7) Rabbit mAb		3465	20 µl	130 kDa	Rabbit IgG
lif-1 Antibody		4467	20 µl	42 kDa	Rabbit
tg9A (D4O9D) Rabbit mAb		13509	20 µl	100-110 kDa	Rabbit IgG
nti-rabbit IgG, HRP-linked Antibo	,	7074	100 µl		Goat
lease visit cellsignal.com for individ	ual component applications, species	cross-reactivity	, dilutions, protocol	ls, and additional produc	t information.
Description	The Autophagy Vesicle Nu proteins involved in autoph perform two western blot e	nagosome form	nation and matura	ation. The kit contains	l means of detecting target enough antibody to
Storage	Supplied in 10 mM sodium 0.02% sodium azide. Store				% glycerol and less than
Background	class III complex interacts formation is stimulated wh protein competes with Atg class III, and Beclin-1 that the presence of the Beclin class III activation and reg	is generally ac gical processes he molecular r utophagy-relate smic vacuoles with Beclin-1 t en Atg14 comp 14 for Beclin-1 regulates auto -1-binding prot ulation by both ex with Beclin-1 fi-1, and can ca required for bot e autophagoso d structures kn nt becomes a s	tivated by conditi s including develo nachinery of auto ed (Atg) genes. The that are delivered o play a role durin plexes with PIK3F binding, forming phagosome matu- ein Rubicon (4,5) Beclin-1/UVRAG , resulting in incr tion of GSK-3β, a pontribute to autop h the initiation ano mal membrane is own as omegaso stable component	ons of nutrient depriva opment, differentiation, phagy was largely disc hese proteins are invo I to lysosomes for degung several stages of au A, PI3K class III, and I a mutually exclusive c uration. Autophagosom Co-expression of PIH and nutrient levels (6 eased PI3-kinase clas as seen during nutrient hagic cell death (8). Au ad the expansion of the s dynamic and transient omes, the trans-Golgi r	tion but is also associated neurodegeneration, covered in yeast and is lved in the formation of radation. The PIK3R4/PI3K utophagy. Autophagosome Beclin-1. The UVRAG omplex with PIK3R4, PI3K ne maturation is impaired in K3R4 is required for PI3K). Bif-1 directly binds to s III/Vps34 activity required deprivation, results in tg9A is an integral a autophagosome (9,10). nt as Atg9A also cycles network (TGN), and

activated protein kinase (MAPK)-binding protein p38IP and the Beclin-1-binding protein Bif-1 (12,13).

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