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Product Datasheet

Anti-ATG8 | Autophagy-related protein, Rabbit, Polyclonal AGR-AS14-2769

Article Name	Anti-ATG8 Autophagy-related protein, Rabbit, Polyclonal
Biozol Catalog Number	AGR-AS14-2769
Supplier Catalog Number	AS14-2769
Alternative Catalog Number	AGR-AS14-2769
Manufacturer	Agrisera
Host	Rabbit
Category	Antikörper
Application	IL, WB
Species Reactivity	A. thaliana, Plant
Immunogen	Fragment of recombinant ATG8 from Chlamydomonas reinhardtii, UniProt: A8JB85
Product Description	ATG8 (Autophagy-related protein 8) is involved in degradation and recycling of intracellular components in a process of autophagy. ATG8 is a molecular autophagy marker in Chlamydomonas reinhardtii (Perez-Perez et al. 2010, Plant Physiol. 152: 1874-88...
Clonality	Polyclonal
Molecular Weight	15.2 15 kDa
NCBI	5724800
UniProt	A8JB85
Purity	Serum

Form	Lyophilized
Antibody Type	Polyclonal Antibody
Application Dilute	1 : 1000 (IL), 1 : 1000-1 : 2000 (WB)
Application Notes	For Arabidopsis thaliana the signal obtained using ATG8 antibodies is cleaner in case of roots compare to leaf material. For best results please follow extraction protocol described in Alvarez et al. (2012). ATG8 signal corresponds to the two bands of 17 kDa. Preparation of a cell extract from Arabidopsis thaliana: A. Plants were first subjected to autophagy activating conditions: nutrient (nitrogen or carbon) limitation or oxidative stress in order to activate this degradative process. B. Total protein extracts can be obtained as described by Alvarez. Leaves are grinded in liquid nitrogen with a minimal volume of extraction buffer (100 mM Tris-HCl pH 8, 400 mM sucrose, 1 mM EDTA, 0.1 mM phenylmethylsulfonyl fluoride (PMSF), 10 mg/ml sodium deoxycholate, 10 µg/ml of leupeptin, 10 µg/ml of pepstatin A, 4% (v/v) protease inhibitor cocktail from Roche). C. Cell debris is removed by centrifuging at 500 g for 10 min at 4°C. Important note: It is recommendable to use bigger gels in order to get a better resolution of ATG8 bands. Midi-protean gels are better than mini-gels. There are 9 ATG8 isoforms and this antibody will likely recognizes all of them. For immunolocalization protocol, please inquire.