

POLYCLONAL ANTIBODY

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Catalog No. KYU-TY-P01

Anti soybean ATG8i

BACKGROUND

ATG8 is one of autophagy related genes, a homolog protein of LC3. ATG8 is conjugated with phosphatidyl ethanol amine on its COOH terminal glycine via ATG7 and ATG3, E1-like enzyme system. Higher plants have multiple genes of ATG8 homologs composed of two subfamily, ATG8a-g and ATG8h-i in Arabidopsis. Anti-soybean ATG8i antibody was raised against GST-fused GmATG8i and crossreacts with plant ATG8h,i-related proteins specifically, but not with plant ATG8a-g.

Product type	Primary antibody
Immunogen	GST-GmATG8i
Raised in	Rabbit
Myeloma	-
Clone number	-
Isotype	-
Source	Rabbit serum
Purification	-
Buffer	supplemented with 0.02% NaN ₃ as a preservative
Concentration	-
Volume	50 ul
Label	Unlabeled
Specificity	soybean ATG8i
Cross reactivity	Soybean, arabidopsis, higher plants
Storage	Store below -20C Aliquot to avoid cycles of freeze/thaw..
Other	DDBJ under accession numbers, AB453309 (GmATG8i)

Application notes • **Western blotting:** 1/1000 - 1/2,000 (Ref.1, Fig. 3)

Recommended dilutions • **Immunoprecipitation:** 2 - 5 ug/ 1mL extracts

Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

- References**
- 1) Nang, M.P.S.H., H. Tanigawa, Y. Ishibashi, SH.Zheng, *T.Yuasa and M. Iwaya-Inoue (2009) Nutrient starvation differentially regulates GmATG8i in soybean seedlings. [Plant Biotechnol. 26:317-326.](#)
 - 2) Okuda M, Nang MP, Oshima K, Ishibashi Y, Zheng SH, *Yuasa T, Iwaya-Inoue, Ethylene signal mediates induction of GmATG8i in soybean plants under starvation stress, Biosci Biotechnol Biochem. 2011;75(7):1408-12. PMID : [21737912](#)

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