



Rabbit anti-Arabidopsis thaliana TPS1 (Middle region) Polyclonal Antibody (CABT-Z157R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana TPS1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Arabidopsis thaliana
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB Recommended dilution: WB: 1:1,000-1:3,000 (detect endogenous protein*)
Molecular Weight	106 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana TPS1 (At1g78580).
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN ₃ .
Preservative	0.01% NaN ₃

Storage	Store at -20°C. Stable for 6 months from date of receipt.
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Ship	Wet ice
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BACKGROUND

Introduction	Trehalose-6-phosphate synthase 1 (TPS1) is required for normal embryo development, vegetative growth and transition to flowering. TPS1 regulates embryo growth, cell wall deposition, starch and sucrose degradation, but not cell differentiation. TPS1 is also involved in the regulation of glucose sensing and signaling genes during plant development. A recent study demonstrated that the loss of TPS1 causes <i>Arabidopsis thaliana</i> to flower extremely late, even under otherwise inductive environmental conditions, suggesting that TPS1 is required for the timely initiation of flowering.
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Keywords	Alpha,alpha-trehalose-phosphate synthase [UDP-forming] 1;Trehalose-6-phosphate synthase 1;AtTPS1
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GENE INFORMATION

Gene Name	TPS1
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Entrez Gene ID	844194
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UniProt ID	Q9SYM4
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