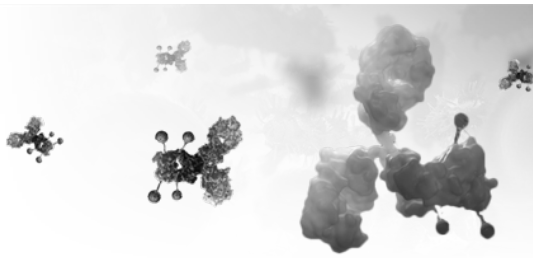

Rabbit anti-Arabidopsis thaliana ABI4 (C-term) Polyclonal Antibody (CABT-Z004R)

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 C-terminal region of arabidopsis thaliana ABI4.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Arabidopsis thaliana
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB Recommended dilution: WB: 1:500-1:2,000 (detect endogenous protein*)
Molecular Weight	Predicted M.W.: 36 kDa; Observed M.W.: 55, 76 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of arabidopsis thaliana ABI4 (AT2G40220).
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% NaN3.
Preservative	0.01% NaN3

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

BACKGROUND

Introduction	ABI4 is a transcription regulator that probably binds to the GCC-box pathogenesis-related promoter element. ABI4 also binds to the S-box (5'-CACTTCCA-3') photosynthesis-associated nuclear genes-related (PhANGs-related) promoter element, thus acts as a transcription inhibitor. ABI4 is involved in the regulation of gene expression by stress factors and by components of stress signal transduction pathways. ABI4 confers sensitivity to abscisic acid (ABA), and regulates the ABA signaling pathway during seed germination, upon nitrate-mediated lateral root inhibition, in hexokinase-dependent sugar responses (including feed-back regulation of photosynthesis and mobilization of storage lipid during germination), and in response to osmotic stress mediated by NaCl, KCl or mannitol. ABI4 plays a role in sucrose sensing or signaling, especially at low fluence far red light. AABI4 is also involved in plant response to glucose treatment, especially at low concentration and in young seedlings. ABI4 is required for the trehalose-mediated root inhibition and starch accumulation in cotyledons, probably by inhibiting starch breakdown. However, ABI4 seems to not be involved in sugar-mediated senescence. In addition, ABI4 is required for the ABA-dependent beta-amino-butyric acid (BABA) pathway.
Keywords	Ethylene-responsive transcription factor ABI4;ERF ABI4;Protein ABSCISIC ACID INSENSITIVE 4;Protein GLUCOSE INSENSITIVE 6;Protein IMPAIRED SUCROSE INDUCTION 3;Protein SALOBRENO 5;Protein SUCROSE UNCOUPLED 6;Protein SUGAR INSENSITIVE 5;ERF052;GIN6;ISI3;SAN5;SIS5;SUN6;At2g40220;T7M7.16

GENE INFORMATION

Gene Name	ABI4
Entrez Gene ID	818614
UniProt ID	A0MES8

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