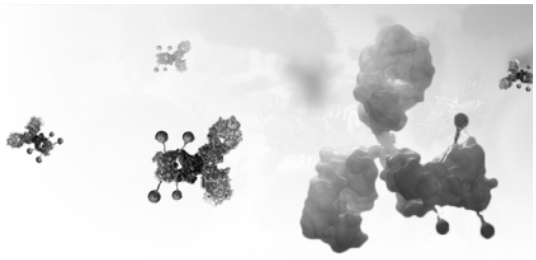

Rabbit anti-Arabidopsis thaliana LUX (N-term) Polyclonal Antibody (CABT-Z093R)

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 N-terminal region of arabidopsis thaliana LUX.
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	35 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of arabidopsis thaliana LUX (At3g46640).
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	Transcription factor LUX is a transcription factor essential for the generation of the circadian clock oscillation. LUX is necessary for activation of CCA1 and LHY expression. LUX is co-regulated with TOC1 and seems to be repressed by CCA1 and LHY by direct binding of these proteins to the evening element in the LUX promoter. LUX also directly regulates the expression of PRR9, a major component of the morning transcriptional feedback circuit, by binding to the specific sites on PRR9 promoter. LUX binds to its own promoter, inducing a negative auto-regulatory feedback loop within the core clock. LUX also binds to ELF3 and associates with ELF4 in a diurnal complex, which is required for the expression of the growth-promoting transcription factors PIF4 and PIF5 and subsequent hypocotyl growth in the early evening.
Keywords	Transcription factor LUX;Protein LUX ARRHYTHMO;Protein PHYTOCLOCK 1;PCL1

GENE INFORMATION

Gene Name	LUX
Entrez Gene ID	823817
UniProt ID	Q9SNB4

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