



Rabbit anti-Arabidopsis thaliana HYL1 (N-term) Polyclonal Antibody (CABT-Z085R)

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 HYL1.
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	46 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of arabidopsis thaliana HYL1 (AT1G09700).
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

HYL1 is a double-stranded RNA-binding protein involved in RNA-mediated post-transcriptional gene silencing (PTGS). HYL1 functions in the microRNAs (miRNAs) biogenesis by assisting DICER-LIKE 1 (DCL1) in the accurate processing from primary miRNAs (pri-miRNAs) to miRNAs in the nucleus. HYL1 forms a complex with SERRATE (SE) and DCL1 to promote accurate processing of pri-miRNAs by DCL1. HYL1 binds and assist DCL1 for accurate processing of precursor miRNAs (pre-miRNA). HYL1 is indirectly involved in the production of trans-acting small interfering RNAs (ta-siRNAs) derived from the TAS1, TAS2 or TAS3 endogenous transcripts by participating in the production of their initiating miRNAs. HYL1 is involved with argonaute 1 (AGO1) in the guide strand selection from miRNA duplexes, presumably by directional loading of the miRNA duplex (guide stand and passenger strand) onto the RNA-induced silencing complex (RISC) for passenger strand degradation. HYL1 does not participate in sense transgene-induced post-transcriptional gene silencing (S-PTGS). HYL1 is involved in several plant development aspects and response to hormones through its role in miRNAs processing.

Keywords	Double-stranded RNA-binding protein 1;Protein HYPONASTIC LEAVES 1;dsRNA-binding protein 1;AtDRB1;DRB1;At1g09700;F21M12.9
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GENE INFORMATION

Gene Name	DRB1
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Entrez Gene ID	837498
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UniProt ID	O04492
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