Hd1 Rabbit pAb

Catalog NO.: A20268 **1 Publications**

Basic Information

Observed MW
50kDa

Calculated MW
43kDa

Category
Polyclonal Antibodies

Applications
WB, ELISA

Cross-Reactivity
Oryza sativa

Conjugation
Unconjugated

Background

Probable transcription factor involved in the regulation of flower development. Required for the promotion of flowering under short day (SD) conditions and the suppression of flowering under long day (LD) conditions. Regulates positively the floral activator HEADING DATE 3a (HD3A) under SD and negatively under LD conditions. The GIGANTEA-CONSTANS-FLOWER LOCUS T (GI-CO-FT) pathway to control photoperiodic flowering under LD is conserved between Arabidopsis and rice, but the regulation of the downstream gene by the upstream regulatory gene is reversed in the two species. In Arabidopsis, GI acts as an activator of CO, which in turn activates the floral activator FT under LD conditions. In rice, GI activates HD1/CO in a similar manner to that in Arabidopsis. However, under LD conditions, HD1 suppresses HD3A/FT expression, causing the suppression of flowering.

Recommended Dilutions

WB	1:500 - 1:2000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
4340746

Swiss Prot
Q9FDX8

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
Hd1; SE1; OsHd1; Hd1

Contact

Product Information

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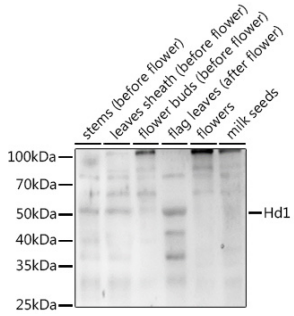
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of extracts of various tissues from the japonica rice (Oryza sativa L.) variety Zhonghua 11, using Hd1 Rabbit pAb (A20268) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 120s.

For research use only. Not for therapeutic or diagnostic purposes.

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