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Hd1 Rabbit pAb

Catalog No.: A20268 **1 Publications**

Basic Information

Observed MW
50kDa

Calculated MW
43kDa

Category
Primary antibody

Applications
ELISA,WB

Cross-Reactivity
Oryza sativa

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

Immunogen Information

Gene ID
4340746

Swiss Prot
Q9FDX8

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-320 of Oryza sativa Hd1 . (Q9FDX8).

Synonyms
Hd1; SE1; OsHd1; Hd1

Contact

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Product Information

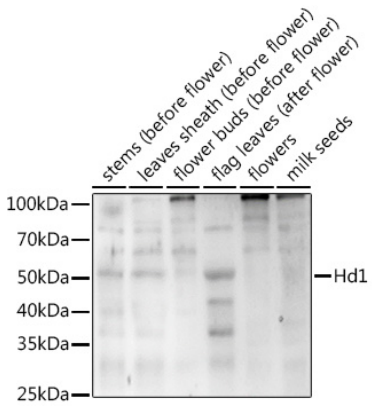
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

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 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.