XCP1 Rabbit pAb

Catalog NO.: A22853

Basic Information

Observed MW
41kDa

Calculated MW
71kDa

Category
Polyclonal Antibodies

Applications
WB, ELISA

Cross-Reactivity
Maize

Conjugation
Unconjugated

Background

XCP1 is a xylem-specific papain-like cysteine peptidase in Arabidopsis. Results from confocal microscopy and biochemical subcellular fractionation indicated that XCP1 was localized in the vacuole. Ectopic expression of XCP1 resulted in a reduction in plant size in some lines and early leaf senescence, as indicated by early loss of leaf chlorophyll. Reduced plant size was correlated with higher levels of XCP1, as shown by immunoblot and peptidase activity gel analyses. The XCP1 prodomain exhibits exceptionally high similarity (greater than 80%) to the prodomains of papain and other papain-like enzymes isolated from papaya (Carica papaya) laticifers when compared with all other reported papain-like enzymes. The XCP1 and papain to perform common functions as catalysts of autolytic processing following cell death due to programmed suicide or to wounding is discussed.

Recommended Dilutions

WB	1:100 - 1:500

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

Immunogen Information

Gene ID
100283433

Swiss Prot
B6TIC7

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

Synonyms
IDP105; GRMZM2G066326; XCP1;Cysteine protease5

Contact

Product Information

order@abclonal.com
service@abclonal.com
www.abclonal.com

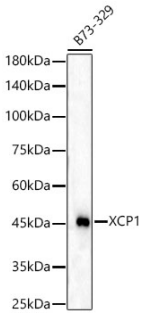
Source
Rabbit

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 lysates from B73-329 using XCP1 Rabbit pAb (A22853) at 1:400 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 45s.

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

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