abcam

Product datasheet

Anti-Sucrose-Phosphate Synthase, Plant antibody ab243200

1 References 1 Image

Overview

Product name	Anti-Sucrose-Phosphate Synthase, Plant antibody
Description	Rabbit polyclonal to Sucrose-Phosphate Synthase, Plant
Host species	Rabbit
Specificity	This antibody recognizes plant Sucrose-Phosphate Synthase proteins including those of sugarcane and maize.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Corn
Immunogen	Recombinant fragment (His-tag) corresponding to Sucrose-Phosphate Synthase, Plant (C terminal). Sugarcane. (C-terminal 362 amino acids with His6 Tag at the N-terminus; Purified). Database link: **P93782**
Positive control	WB: Maize leaf extract.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 6 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein A/G purified
Purification notes	Filter sterilized.
Clonality	Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab243200 in the following tested applications.

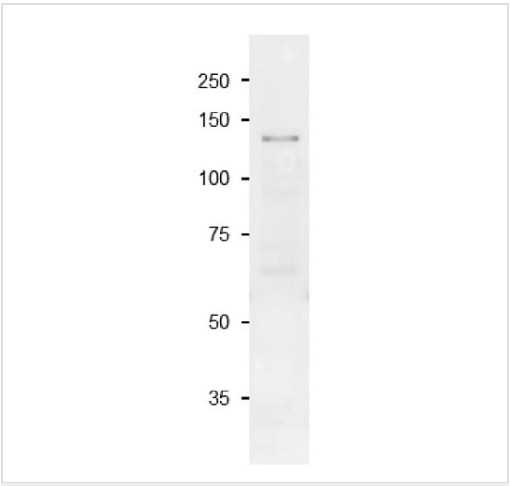
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 116 kDa.

Target

Relevance Sucrose-phosphate synthase (SPS) plays a major role in photosynthetic sucrose synthesis by catalyzing the rate-limiting step of sucrose biosynthesis from UDP-glucose and fructose-6-phosphate. SPS is involved in the regulation of carbon partitioning in the leaves of plants. It may regulate the synthesis of sucrose and therefore play a major role as a limiting factor in the export of photo-assimilates out of the leaf. It plays a role for sucrose availability that is essential for plant growth and fiber elongation. It is required for nectar secretion.

Images



Western blot - Anti-Sucrose-Phosphate Synthase, Plant antibody (ab243200)

Anti-Sucrose-Phosphate Synthase, Plant antibody (ab243200) at 1/500 dilution + Maize leaf extract at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Predicted band size: 116 kDa

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