

Product: Anti-cFBPase (cytosolic fructose 1,6 bisphosphatase)

Product no: AS04 043

Antibodies for plant sciences

Product Information

Antibody clonality: Polyclonal

Raised in: Rabbit

Purity: Serum

Quantity: 100 µl

Antibody form: Lyophilized. For reconstitution please add 100 µl of sterile water.

Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

Storage instructions: -20°C or -80°C long Term storage (years). Please, avoid freezing and thawing of antibodies. Make aliquots instead.

Reference: Strand A, Zrenner, R, Trevanion S, Stitt M, Pettersson P and Gardstrom P (2000) *The Plant Journal*, 23(6), 759-770.

Background

Fructose-1,6 bisphosphatase (FBPase) is one of the regulatory enzymes in the sucrose biosynthetic pathway. In non-photosynthetic tissues, it regulates the rate of gluconeogenesis. In photosynthetic tissues, two FBPase isozymes (chloroplastic and cytosolic) play key roles in carbon assimilation and metabolism.

In photosynthetic tissues cFBPase (cytosolic fructose 1,6 bisphosphatase) converts triose phosphates from the chloroplast to sucrose during light hours.

Kinetic and allosteric properties of the plant cytosolic FBPase are remarkably similar to the mammalian and yeast FBPase, but differ greatly from those of the chloroplastic FBPase.

Immunogen: Overexpressed cytosolic fructose 1,6 bisphosphatase (cFBPase). Due to a high sequence conservation antibody is predicted to work with many species.

Note: Antibody can be used as a marker of cytoplasm. It does not recognize chloroplastic form of the enzyme.

Application information:

Western Blot: 1: 5 000 (ECL)

MW: kDa

Reactivity: *Arabidopsis thaliana*, *Brassica napus* (tested so far)

Antibodies are intended for the research use only not for diagnostic or therapeutic use.

Product support: inquiry@agrisera.com, <http://www.agrisera.com>