

**Product:** Anti-UGPase

**Product no:** AS05 086

## Product Information

**Antibody clonality:** Polyclonal

**Raised in:** Rabbit

**Purity:** Serum

**Quantity:** 200 µl

**Antibody form:** Lyophilized. For reconstitution please add 200 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.

## Background

UDP-glucose pyrophosphorylase (UGPase) is a key enzyme of synthesis of sucrose, cellulose and other saccharides.

**Immunogen:** Barley UDP-glucose pyrophosphorylase overexpressed and purified from *E.coli* (Martz et al., 2002, *Biochem. J.* 367: 295-300)

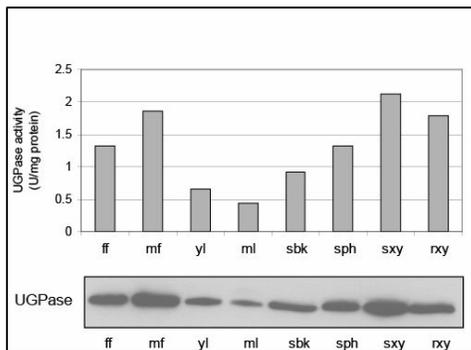
## Application information:

**Western Blot:** 1:1 000 (ECL detection)

Antibodies detect down to 1 ng of UGPase from a poplar extract.

**MW:** 51 kDa

**Reactivity:** Antibodies will recognize UGPase from all eucaryotic cells and can be used as a marker of a cytoplasmic fraction. Antibody has been tested so far on following extracts: *Arabidopsis thaliana*, *Pisum sativum*, *Populus sp.*, *Solanum tuberosum*, *Chlamydomonas reinhardtii*.



Distribution of UGPase activity and protein in various poplar (*Populus*) tissues.

A 1 year-old greenhouse grown plant was dissected into different tissues, which were then used for enzyme assays and immunoblot analyses. **ff** - female flower, **mf** - male flower, **yl** - young leaf, **ml** - mature leaf, **sbk** - stem bark, **sph** - stem phloem and cambium, **sxy** - stem xylem, **rxy** - root xylem,

Equal amounts of total protein (7.5 µg) were loaded on each lane. SDS-PAGE was run on a 7.5% gel. Immunoblot was done using Amersham PVDF transfer membrane. Primary antibodies against barley UGPase were used at 1: 1 000. Secondary antibodies (Amersham ECL Rabbit IgG, HRP-Linked Whole Antibody from donkey) were used at 1:10 000.

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

Product support: [inquiry@agrisera.com](mailto:inquiry@agrisera.com), <http://www.agrisera.com>

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