

B/C D

Product information

Antibody name: anti-hellethionin

Product number: H13H-2

Product description: polyclonal antibody;

contains 0.01% NaN₃

Origin: rabbit

Immunogen: mixture of extracted hellethionins A, B, C, D, E and G from *Helleborus purpurascens*

conjugated to ovalbumin

Immunodetection: ELISA (1:256.000); Western blot

(1:500 for ECL)

Immunocrossreaction: reacts with hellethionins A, B, C, D, E and G from *H. purpurascens*. The crossreaction with other plant thionins was not analysed.

Storage: short term +4°C; long term -20°C. Repeated

freezing and thawing is not recommended.

Quantity: 300 µl

Protein description: Hellethionins (Milbradt et el. 2003) belong to a family of plant thionins, a small-sized multiple-cysteine peptides that are involved in the plant defence against pathogens. The antimicrobial activity and cytotoxicity of thionins have led to the development of two potential applications of thionins: in agriculture transgenic plants containing thionin genes can enhance pathogen resistance, and targeting of thionins by tumor-specific antibodies is expected to support antitumor therapy.

Literature:

- 1. Milbradt A. G., Kerek F., Moroder L., and Renner C. (2003) Structural characterisation of hellethionins from *Helleborus purpurascens*. Biochemistry 42, 2404 2411
- 2. Silverstein K. A., Moskal W. A. Jr., Wu H. C., Underwood B. A., Graham M. A., Town C. D., VandenBosch K. A. (2007) Small cysteine-rich peptides resembling antimicrobial peptides have been under-predicted in plants. Plant J. 51, 262 280

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14 – 6 – 3 – d + m

Western blot analysis extracted hellethionin B, C and D with anti-hellethionin. M – monomer, d – dimer forms of hellethionins.

Bank account:

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