Product information

Background  EDS1 (Enhanced disease susceptibility 1) is a protein with lipase activity involved in aerencyma formation, lipid metabolic process, response to hypoxia and systemic acquired resistance. Alternative names: Putative disease resistance protein EDS1, Putative uncharacterized protein T17F15.40.

Immunogen  KLH-conjugated synthetic peptide derived from Arabidopsis thaliana EDS1 sequence, UniProt: Q9SU72, TAIR: AT3G48090

Host  Rabbit

Clonality  Polyclonal

Purity  Affinity purified serum in PBS, pH 7.4

Format  Lyophilized in PBS pH 7.4

Quantity  50 µg

Reconstitution  For reconstitution add 50 µl of sterile water.

Storage  Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Tested applications  Western blot (WB)

Related products  collection of antibodies to pathogen attack
                collection of antibodies to hypoxia
                Plant protein extraction buffer
                Secondary antibodies

Additional information  This product can be sold containing ProClin if requested

Application information

Recommended dilution  1 : 3000 (WB)

Expected | apparent MW  71.6 kDa | 72 kDa

Confirmed reactivity  Arabidopsis thaliana

Predicted reactivity  Arabidopsis thaliana

Not reactive in  Nicotiana benthamiana

            Chakraborty et al. (2018). Epigenetic and transcriptional control of chickpea WRKY40 promoter activity under Fusarium stress and its heterologous expression in Arabidopsis leads to enhanced resistance against bacterial pathogen. Plant Science, doi.org/10.1016/j.plantsci.2018.07.014
20 µg of total protein from *Arabidopsis thalía*na extracted with HEPES buffer were separated on 8% SDS-PAGE and blotted 1h to PVDF using semi-dry or tank transfer. Blots were blocked with 5% milk-TBS-T for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 3000 for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:25 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 15 minutes.

Courtesy of Morgan K. Halane, University of Missouri, USA