Background EDS1 (Enhanced disease susceptibility 1) is a protein with lipase activity involved in aerenzyma 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

Related products collection of antibodies to hypoxia

Related products Plant protein extraction buffer

Related products Secondary antibodies

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

Selected references 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

application example
20 µg of total protein from *Arabidopsis thaliana* 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