product AS12 1867
HY5 | Protein long hypocotyl 5

product information

Background

Immunogen
KLH-conjugated peptide, derived from Arabidopsis thaliana HY5 protein sequence, UniProt:O24646, TAIR: AT5G11260. Chosen peptide is not conserved in HYH protein sequence.

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
AS08 342 | COP1 | constitutive photomorphogenesis protein 1, rabbit antibody

Application information

Recommended dilution
1: 500 to 1 : 1000 (WB)

Expected | apparent MW
18.5 kDa

Confirmed reactivity
Arabidopsis thaliana

Predicted reactivity
Brassica pekinensis

Not reactive in
Hordeum vulgare, Oryza sativa, Pisum sativum, Populus sp., Solanum lycopersicum, Triticum aestivum

Additional information
This antibody detects well recombinant HY5 in Nicotiana benthamiana (image below).

Urea buffer needs to be used when working with endogenous extract to allow detection with this antibody.

Selected references
20 ug of total protein from control (1), 35S::YFP-HY5-HA (2, red arrow), 35S::YFP-HY5-HA + 35S::CFP-X protein (green arrow), were separated on 12 % SDS-PAGE using tank transfer and blotted 1 h to PVDF (Biorad). Blots were blocked with 5 % skim milk for 1h at room temperature (RT) with agitation. Blot was incubated in the anti-HY5 antibody (second panel from the left) at a dilution of 1: 1000 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 PBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG, HRP conjugated from Agrisera, AS09 602), diluted to 1: 10 000 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 60 seconds.

Courtesy of Dr. Seok Keun Cho, University of Copenhagen, Danmark