product information

**Background**


**Immunogen**

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

**Host**

Rabbit

**Clonality**

Polyclonal

**Purity**

Affinity purified serum in PBS, pH 7.4

**Format**

Lyophilized

**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 proteins involved in photomorphogenesis

Plant protein extraction buffer

Secondary antibodies

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, Pium sativum, Populus sp. , Solanum lycopersicum, Triticum aestivum*

**Additional information**

This antibody detects recombinant HY5 in *Nicotiana benthamiana*.

Extraction and loading buffer with 6-8 M urea buffer needs to be used when working with endogenous extract to allow detection with this antibody.

**Selected references**


Application information

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 chemiluminescent detection, according to the manufacturer’s instructions. Exposure time was 60 seconds.

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