product AS01 012
DS5a | Drosophila 26S proteasome subunit Rpn10

product information

**Background**
Proteasome-dependent degradation serves an essential role in the removal of a wide variety of key nuclear and cytosolic proteins. Substrates are targeted for proteolysis by the ubiquitin pathway before being degraded by the 26S proteasome. The subunit of the proteasome, S5a, was identified to bind to polyubiquitin in vitro and thus proposed to act as a substrate recognition component.

**Immunogen**
*Drosophila melanogaster* 26S Proteasome subunit S5a also known as Rpn10, p54. Antigen sequence is also conserved in *Arabidopsis thaliana* AT4G38630.

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Serum

**Format**
Lyophilized

**Quantity**
50 µl

**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**
ASA01 019 | human 26S proteasome subunit

Application information

**Recommended dilution**
1 : 2000 (WB)

**Expected | apparent MW**
42.6 | 54 kDa (*Drosophila*), 40 kDa (*A. thaliana*)

**Confirmed reactivity**
*Arabidopsis thaliana, Drosophila melanogaster*

**Predicted reactivity**
Bovine, Mouse, Pig, Salmon, Rat,

**Not reactive in**
No confirmed exceptions from predicted reactivity are currently known.

**Selected references**

Application example

3 µg of total protein from *Arabidopsis thaliana* leaves extracted with CelLytic P (Sigma) were separated on 10% SDS-PAGE and blotted overnight at 30V to a nitrocellulose membrane. Blots were blocked with 1% western blocking reagent (Roche) for 1h at room temperature (RT)
with agitation. Blot was incubated in the primary antibody (DS5a) at a dilution of 1:2000 for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly, and then washed twice for 10 min with TBS-T at RT with agitation. Subsequently, the blot was washed twice with 0.5% western blocking reagent for 10 min each. Blot was incubated in secondary antibody (Goat anti-rabbit IgG (H&L) HRP conjugated, AS09 602 from Agrisera) diluted to 1:50 000 in 0.5% western blocking reagent for 1h at RT with agitation. The blot was washed 4 times with TBS-T buffer. Detection of HRP was performed with ECL according to the manufacturer's instructions. Exposure time was 2 seconds. Position of protein on gel corresponds to expected size - 40 kDa.

Courtesy Dr. Jozefus Schippers, Max Planck Institute, Germany