# Proteasome 19S Rpn10/S5a subunit monoclonal antibody (S5a-18)

**This antibody is covered by our Worry-Free Guarantee.**

**Citations:** 13 View Online »

## Ordering Information Order Online »

| | |
|---|---|
| **BML-PW9250-0025** | 25µl |
| **BML-PW9250-0100** | 100µl |

## Manuals, SDS & CofA View Online »

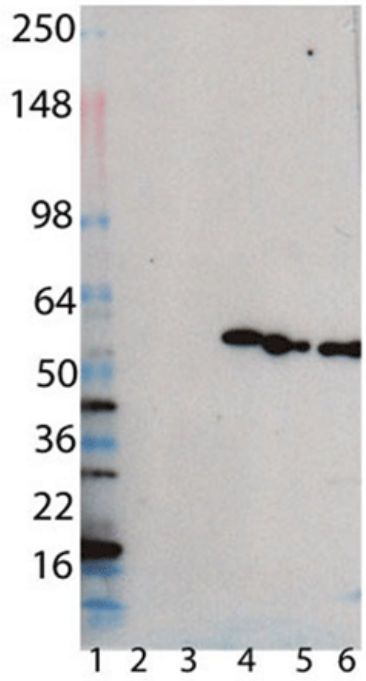
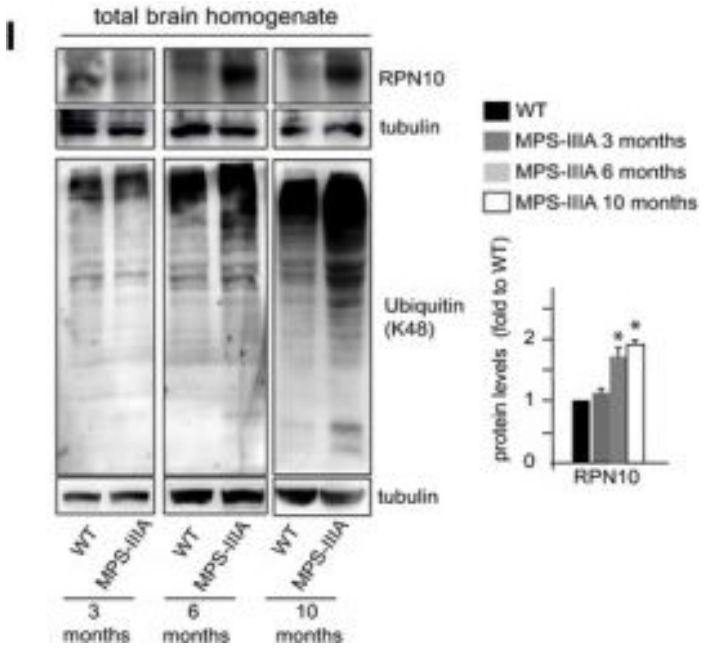



**Figure 1.** Western blot analysis of Proteasome 19S Rpn10/S5a subunit, mAb (S5a-18) (Prod. No. BML-PW9250): Lane 1: MW marker, Lane 2: 3T3 (Prod. No. ADI-LYC-3T100), Lane 3: L929, Lane 4: PC-12 (Prod. No. ADI-LYC-PC100), Lane 5: MDBK, Lane 6: HeLa S100 fraction (Prod. No. BML-SW8750).




Lysosomal- driven deregulation of α- synuclein and CSPα degradationWB analysis of LC3 and p62 (an autophagy substrate) was performed on WT and MPS- IIIA brain samples at the indicated ages. WB quantitation is shown.α- Synuclein was immunoblotted in WT and MPS- IIIA in both total and synaptosomal brain fractions at the indicated ages after sequential extraction with detergents with increased strength. Soluble (Sol.), lowly insoluble (L. Insol.), and highly insoluble (H. Insol.) forms correspond to the protein solubilized in Triton X- 100, 10% SDS and 8 M urea, respectively.Co- immunofluorescence analysis of α- synuclein with SMI- 32 in WT and MPS- IIIA hippocampal neurons (DIV14). α- Synuclein synaptic puncta present in a neurite tract of 10 μm is shown in a representative enlarged image. Quantification of α- synuclein synaptic puncta was calculated from 30 different enlarged images.Confocal analysis of α- synuclein (green) and LAMP1 (red) in WT and MPS- IIIA hippocampal neurons (DIV14). Enlarged merge images are also shown. Co- localization was quantified using the MCC (ImageJ) and displayed as percentage (MCC × 100) of α- synuclein co- localizing with LAMP1 (15 different images taken from 4 to 5 coverslips for each group).CSPα was immunoblotted in WT and MPS- IIIA total brain lysates at the indicated ages after sequential extraction with detergents with increased strength as in (B).Co- immunofluorescence analysis of CSPα and SMI- 32 in DIV14 hippocampal neurons. CSPα synaptic puncta was quantified as in (C).CSPα protein levels were evaluated by immunoblot analysis in WT and MPS- IIIA hippocampal neurons (DIV14) at different times after cycloheximide treatment and expressed as percentage of remaining protein at T0 (100%). The proteasome was inhibited as indicated. WB quantification is shown.Palmitoylation- dependent shift in

## Handling & Storage

| | |
|---|---|
| **Handling** | Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C. |
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | 26S proteasome non-ATPase regulatory subunit 4, Antisecretory factor 1, Multiubiquitin chain-binding protein |
| **Application** | IP, WB |
| **Clone** | S5a-18 |
| **Formulation** | Liquid. In PBS containing 10mM sodium azide. |
| **Gene/Protein Identifier** | PSMD4 (gene name) |
| **Host** | Mouse |
| **Immunogen** | Recombinant full-length human Rpn10 protein. |
| **Isotype** | IgG1 |
| **Recommendation Dilutions/Conditions** | Western Blot (1:1,000, ECL)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application. |
| **Source** | Purified from hybridoma tissue culture supernatant. |
| **Species Reactivity** | Bovine, Human, Rat |
| **Specificity** | Recognizes the Rpn10/S5a subunit of the 19S regulator complex. |
| **UniProt ID** | P55036 |

## Worry-free Guarantee

**This antibody is covered by our Worry-Free Guarantee .**

## Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com