## Proteasome 20S α7 subunit monoclonal antibody (MCP72)

This antibody is covered by our Worry-Free Guarantee.

Citations: 26

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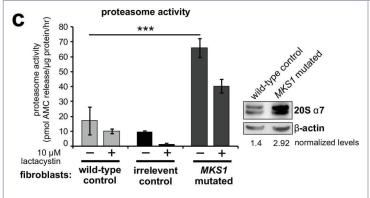
## **Ordering Information**

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BML-PW8110-0025	25µl
BML-PW8110-0100	100μΙ

Manuals, SDS & CofA

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Deregulation of canonical Wnt signalling and proteasome activity following loss or mutation of MKS1.(a) Immunoblots for total soluble β-catenin, phospho-β-catenin, cyclin D1 and β-actin (loading control) in either wild-type normal or MKS1-mutated immortalised human fibroblasts from an MKS patient (MKS-562) following treatment with MG-132 proteasome inhibitor (+) or vehicle control (-). (b) SUPER-TOPFlash assays of canonical Wnt signalling activity in human MKS1-mutated fibroblasts compared to wild-type control fibroblasts following treatment with control conditioned medium, Wnt5a, Wnt3a, or a mixture of Wnt3a and Wnt5a media, as indicated. Statistical significance of pairwise comparisons is shown (\* indicates p < 0.05, paired two-tailed Student t-test). Error bars indicate s.e.m. with results shown for four independent biological replicates. (c) Proteasome activity assays for wild-type or MKS1-mutated human fibroblasts or an irrelevant control (ASPM-mutant fibroblasts), following treatment with c-lactacystin-βlactone (+) or vehicle control (-). Statistical significance of pairwise comparison as for (b); \*\*\* indicates p < 0.001 for three independent biological replicates. Immunoblots show levels of the 20 S proteasome α7 subunit compared to β-actin loading control. (d) Protease activity assays of crude proteasome preparations from Mks1+/+ or Mks1-/- mouse embryonic fibroblasts (MEFs), expressed as pmol AMC released per µg proteasome per hr. Treatment with lactacystin is the assay control. Statistical analysis as for (b); \*\* indicates p T]+[IVS15-7 35del29] causing the predicted nonsense and splice-site mutations [p.R158\*]+[p.P470fs\*562]. Additional smaller PCR products in MKS1 patient corresponds to skipping of exon 5 and exon 16, confirmed by Sanger sequencing, due to the frameshift mutation affecting splicing. (b) Immunoblot showing loss of MKS1 protein in MKS1mutated patient fibroblasts compared to healthy controls; loading control is β-actin. (c) IF microscopy images of wild-type control and MKS1-mutated fibroblasts showing loss of cilia and disorganisation of cytoskeleton in patient cells. Bar graphs quantify reductions in incidence and length of cilia in natient

# Calnexin Actin a7 subunit Cathepsin

Differential centrifugation of PBMC lysate yields fractions that are highly enriched in endolysosomes. (A) Enrichment of endolysosomes in fractions recovered after differential centrifugation was assessed by western blot. PBMC lysate from which endolysosomes were

### **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** Proteasome subunit α type-3, Macropain subunit C8

Application IHC, WB

Clone MCP72

**Formulation** Liquid. In PBS containing 10mM sodium azide.

Gene/Protein Identifier PSMA3 (gene name)

Host Mouse

**Immunogen** Dinitrophenylated human placenta derived proteasomes.

**Isotype** IgG1

Purity Detail Partially purified ascites.

**Source** Purified from hybridoma tissue culture supernatant.

**Species Reactivity** Arthropod, Human, Rabbit, Rat, Yeast

**Specificity** Recognizes the  $\alpha$ 7 subunit of the 20S proteasome.

Technical Info / Product

Notes

Various systems for the nomenclature of the proteasome subunits have been established. This may be a source of confusion as the system on UniProt differs from "standard" nomenclature as described in the literature. The UniProt ID and Gene Name will help to clearly identify the proteins.

UniProt ID P25788



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