

Product datasheet

Recombinant human PSME3 protein ab206156

[2 Images](#)

Description

Product name	Recombinant human PSME3 protein
Biological activity	ab206156 can stimulate the peptidase activities of the 20S proteasome.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P61289-2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MASLLKVDQE VKLKVDSFRE RITSEAEDLV ANFFPKKLE LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD GPTYKKRRRLD ECEEAFQGTK VVMPNGMLK SNQQLVDIIE KVKPEIRLLI EKCNTVKMWV QLLIPRIEDG NNFGVSIQEE TVAELRTVES EAASYLDQIS RYYITRAKLV SKIAKYPHVE DYRRTVTEID EKEYISLRLI ISELRNQYVT LHDMLKKNIE KIKRPRSSNA ETLY
Predicted molecular weight	30 kDa
Amino acids	1 to 267
Additional sequence information	Isoform 2 (NM_176863)

Specifications

Our [Abpromise guarantee](#) covers the use of **ab206156** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
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Form	Liquid
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Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

Constituents: 0.24% Tris, 0.87% Sodium chloride, 0.02% Beta mercaptoethanol, 10% Glycerol

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Subunit of the 11S REG-gamma (also called PA28-gamma) proteasome regulator, a donut-shaped homoheptamer which associates with the proteasome. 11S REG-gamma activates the trypsin-like catalytic subunit of the proteasome but inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. Facilitates the MDM2-p53/TP53 interaction which promotes ubiquitination- and MDM2-dependent proteasomal degradation of p53/TP53, limiting its accumulation and resulting in inhibited apoptosis after DNA damage. May also be involved in cell cycle regulation.

Sequence similarities

Belongs to the PA28 family.

Domain

The C-terminal sequences affect heptamer stability and proteasome affinity.

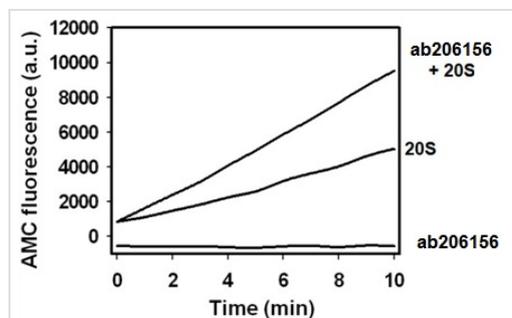
Post-translational modifications

Phosphorylated by MAP3K3.

Cellular localization

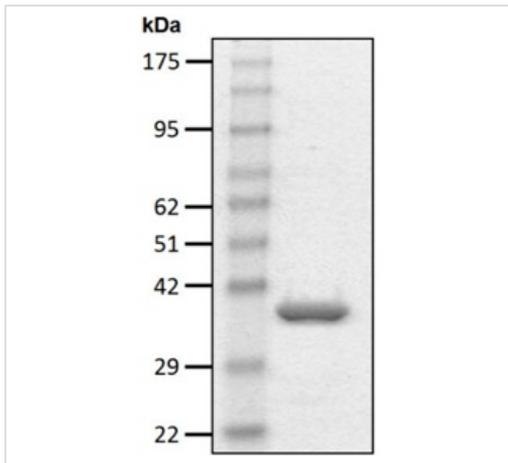
Nucleus. Cytoplasm. Localizes to the cytoplasm during mitosis following nuclear envelope breakdown at this distinct stage of the cell cycle which allows its interaction with MAP3K3 kinase.

Images



Activation of 5 nM 20S proteasome by 25 nM ab206156, the proteasome activity was assayed by using 50 μ M Suc-LLVY-AMC as the substrate. The AMC fluorescence was monitored by a plate reader with excitation and emission filters of 360 ± 40 nm and 460 ± 30 nm, respectively.

Functional Studies - Recombinant human PSME3 protein (ab206156)



Coomassie stained SDS PAGE of ab206156 (5 µg)

SDS-PAGE - Recombinant human PSME3 protein
(ab206156)

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