

PSMD3 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: E(513) R E Q Q D L E F A K E M A E D D D D S F P(534)
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2237636

Applications	Tested Dilution	Publications
Western Blot (WB)	1.0 µg/mL	-
Immunocytochemistry (ICC/IF)	1:50-1:500	-
Flow Cytometry (Flow)	1-20 µg/mL	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

PA1-974 detects proteasome 19S subunit S3 from human and mouse cells.

PA1-974 has been successfully used in ICC/IF, FACS, and Western blot procedures. By Western blot, this antibody detects an ~60 kDa protein representing proteasome 19S subunit S3 from HeLa cell extract.

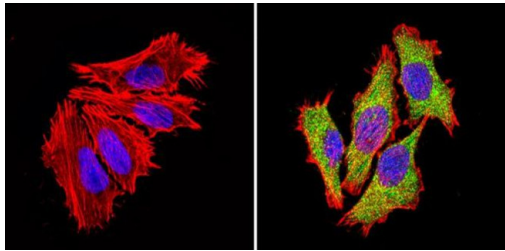
For Western blot procedures it is necessary to transfer the protein to membrane at pH 11.

PA1-974 immunizing peptide corresponds to amino acid residues 513-534 from human proteasome 19S subunit S3 protein.

Product Images For PSMD3 Polyclonal Antibody

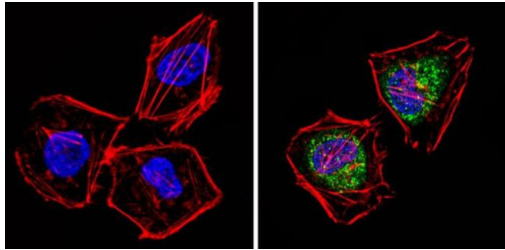
PSMD3 Antibody (PA1-974) in ICC/IF

Immunofluorescent analysis of Proteasome 19S Subunit S3 (green) showing staining in the cytoplasm and nucleus of A549 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Proteasome 19S Subunit S3 polyclonal antibody (Product # PA1-974) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



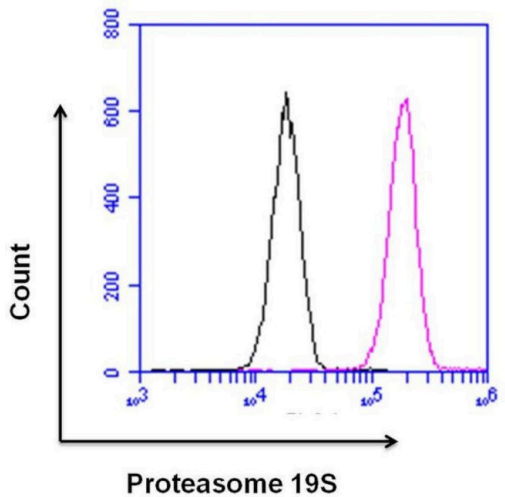
PSMD3 Antibody (PA1-974) in ICC/IF

Immunofluorescent analysis of Proteasome 19S Subunit S3 (green) showing staining in the cytoplasm and nucleus of Hela cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Proteasome 19S Subunit S3 polyclonal antibody (Product # PA1-974) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



PSMD3 Antibody (PA1-974) in Flow

Flow cytometry analysis of Proteasome 19S was done on HeLa cells. Cells were fixed, permeabilized and stained with a Proteasome 19S rabbit polyclonal antibody (Product # PA1-974, pink histogram) or a rabbit IgG isotype control (Product # MA5-16384, black histogram) at a dilution of 10 µg/mL. After incubation for 1 hour on ice, the cells were labeled with a Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 647 conjugate (Product # A27040) at a dilution of 1:50 for 1 hour on ice. A representative 10,000 cells were acquired and analyzed for each sample.



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Miscellaneous PubMed (1)

The Journal of biological chemistry	Year 2007
<b>The cyclophilin-like domain of Ran-binding protein-2 modulates selectively the activity of the ubiquitin-proteasome system and protein biogenesis.</b>	
"PA1-974 was used in western blot to investigate the role of proteasome subunits S10B during the proteolysis of intracellular proteins regulated by the ubiquitin-proteasome system."	
Authors: Yi H,Friedman JL,Ferreira PA	

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