

PSMA5 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Hamster, Human, Mouse, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C A(120) L Q F G E E D A D P G A M(133) of human proteasome 20S subunit alpha 5.
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_2171717

Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	2 µg/mL	3 Publications

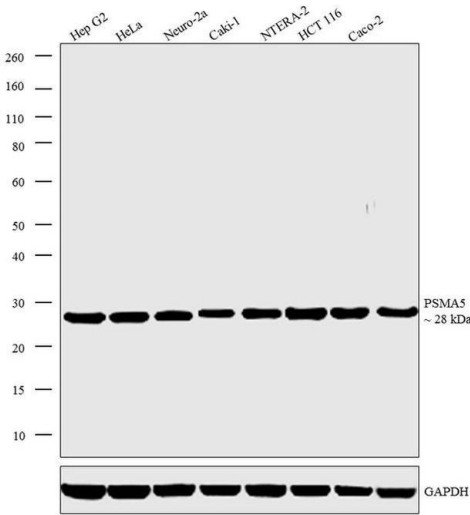
Product Specific Information

PA1-1962 detects proteasome 20S subunit alpha 5 from human, rat, mouse and hamster cell lysates.

PA1-1962 has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects a 26.5 kDa protein representing proteasome 20S subunit alpha 5 from human, rat, mouse, and hamster cell extracts.

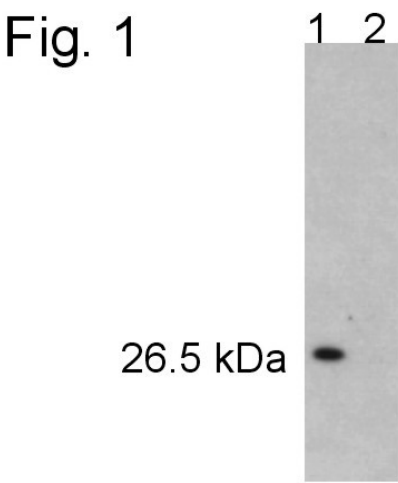
PA1-1962 immunogen is a synthetic peptide corresponding to residues C A(120) L Q F G E E D A D P G A M(133) of human proteasome 20S subunit alpha 5. PA1-1962 immunizing peptide (Cat. # PEP-210) is available for use in neutralization and control experiments.

Product Images For PSMA5 Polyclonal Antibody



PSMA5 Antibody (PA1-1962) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Hep G2 (Lane 1), HeLa (Lane 2), Neuro-2a (Lane 3), Caki-1 (Lane 4), NTERA-2 (Lane 5), HCT 116 (Lane 6), Caco-2 (Lane 7), and tissue extract (30 µg lysate) of Mouse Liver (Lane 8). The blots were probed with Anti-PSMA5 Rabbit Polyclonal Antibody (Product # PA1-1962, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 28 kDa band corresponding to PSMA5 was observed across the cell lines and tissue tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

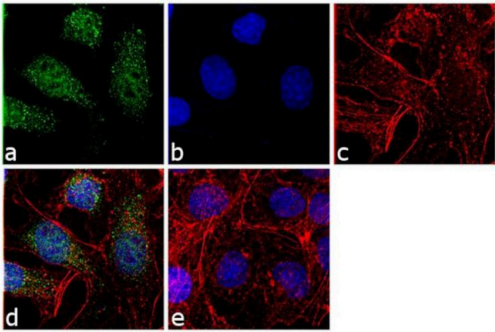


PSMA5 Antibody (PA1-1962) in WB

Western blot of HeLa cell extract using Product # PA1-1962. Lane 1 is PA1-1962. Lane 2 is PA1-1962 pre-incubated with peptide.

PSMA5 Antibody (PA1-1962) in ICC/IF

Immunofluorescence analysis of Proteasome 20S Subunit alpha-5 was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with PSMA5 Rabbit Polyclonal (Product # PA1-1962) at 2 µg /mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing cytoplasmic and nuclear localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



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Western Blot (3)

<p>Journal of molecular biology</p> <p>Network Analysis of UBE3A/E6AP-Associated Proteins Provides Connections to Several Distinct Cellular Processes.</p> <p>"Published figure using PSMA5 polyclonal antibody (Product # PA1-1962) in Western Blot"</p> <p>Authors: Martínez-Noël G,Luck K,Kühnle S,Desbuleux A,Szajner P,Galligan JT,Rodriguez D,Zheng L,Boyland K, Leclere F,Zhong Q,Hill DE,Vidal M,Howley PM</p>	<p>Year 2018</p>
<p>Nucleic acids research</p> <p>ATM regulates proteasome-dependent subnuclear localization of TRF1, which is important for telomere maintenance.</p> <p>"PA1-1962 was used in western blot to study the role of ATM in telomere function"</p> <p>Authors: McKerlie M,Lin S,Zhu XD</p>	<p>Year 2012</p> <p>Species Human</p>

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Immunocytochemistry (3)

<p>Cell reports</p> <p>Active Protein Neddylation or Ubiquitylation Is Dispensable for Stress Granule Dynamics.</p> <p>"PA1-1962 was used in Immunocytochemistry-immunofluorescence to study whether active ubiquitylation or neddylation modulates stress granule dynamics."</p> <p>Authors: Markmiller S,Fulzele A,Higgins R,Leonard M,Yeo GW,Bennett EJ</p>	<p>Year 2019</p> <p>Species Human</p>
<p>The Journal of cell biology</p> <p>The transition zone protein Rpgr1p1 regulates proteasomal activity at the primary cilium.</p> <p>"PA1-1962 was used in immunocytochemistry to use knockout mice to determine the function of RPGRIP1L."</p> <p>Authors: Gerhardt C,Lier JM,Burmühl S,Struchtrup A,Deutschmann K,Vetter M,Leu T,Reeg S,Grune T,Rüther U</p>	<p>Year 2015</p> <p>Species Mouse</p>

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