

PAX7 Polyclonal Antibody

Product Details

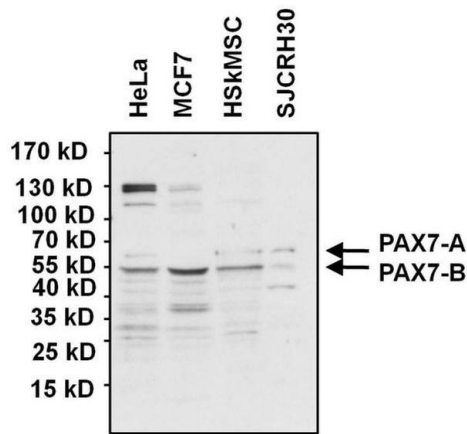
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Purified internal fragment of human recombinant PAX7 expressed in E. coli.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 30% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2539886

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:2,000	3 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunocytochemistry (ICC/IF)	1:20-1:200	3 Publications
Immunoprecipitation (IP)	3 µg	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Western blot analysis of PA1-117 detects a prominent ~54 kDa protein in human HeLa, MCF7, rhabdomyosarcoma and skeletal muscle satellite cells and a weaker ~57 kDa protein in HeLa, rhabdomyosarcoma and skeletal muscle satellite cells. The ~57 kDa band seems to be enriched in immunoprecipitations from HeLa lysate, suggesting a bias for the larger isoform in this application. Weak unknown bands of lower molecular weight and at ~110-130 kDa are also detected. Specificity of the antibody was also confirmed in HeLa cells overexpressing full length PAX7.

Product Images For PAX7 Polyclonal Antibody

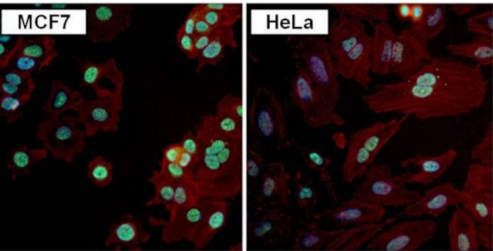


PAX7 Antibody (PA1-117) in WB

Western blot analysis of PAX7 was performed by loading 50 µg of various whole cell lysates and 10 µL of PageRuler Prestained Protein Ladder (Product # 26616) onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a PAX7 polyclonal antibody (Product # PA1-117) at a dilution of 1:1000 overnight at 4°C on a rocking platform, washed in TBS-0.1%Tween-20, and probed with a goat anti-rabbit HRP secondary antibody (Product # 31460) at a dilution of 1:20,000 for at least one hour. Membranes were washed and chemiluminescent detection was performed using SuperSignal West Dura (Product # 34075). Note: PAX7 was detected in whole cell lysates from HeLa, MCF7, in the PAX7 positive control Rhabdomyosarcoma cell line SJCRH30, and in primary Human Skeletal Muscle Satellite Cells. In HeLa, SJCRH30, and HSkMSC lysates the antibody detected both PAX7 isoforms (PAX7-A and PAX7-B).

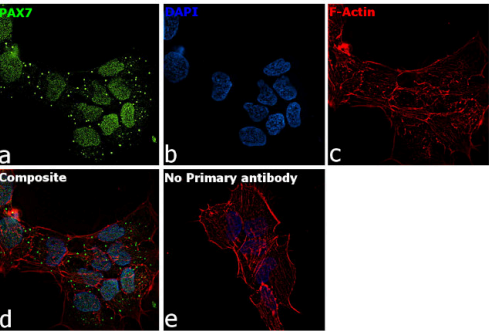
PAX7 Antibody (PA1-117) in ICC/IF

Immunofluorescent analysis of PAX7 (green) in MCF7 and HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a PAX7 polyclonal antibody (Product # PA1-117) at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with a DyLight 488-conjugated goat anti-rabbit IgG secondary antibody (Product # 35552) at a dilution of 1:400 for 30 minutes at room temperature. F-Actin (red) was stained with DyLight-554 Phalloidin (Product # 21834) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



PAX7 Antibody (PA1-117) in ICC/IF

Immunofluorescence analysis of PAX7 was performed using 70% confluent log phase A-673 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with PAX7 Polyclonal Antibody (Product # PA1-117) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained withRhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (3)

<p>NPJ Regenerative medicine</p> <p>Exosome biopotentiated hydrogel restores damaged skeletal muscle in a porcine model of stress urinary incontinence.</p> <p>"PA1-117 was used in Western Blotting to describe PEP-based biopotentiation of hydrogels implemented to restore skeletal muscle function and may serve as a promising approach for the nonsurgical management of SUI."</p> <p>Authors: Rolland T.J,Peterson TE,Singh RD,Rizzo SA,Boroumand S,Shi A,Witt TA,Nagel M,Kisby CK,Park S,Rowe LA,Paradise CR,Becher LRE,Paradise BD,Stalboerger PG,Trabuco EC,Behfar A</p>	<p>Year 2022</p> <p>Species Rat</p> <p>Dilution 1:100</p>
<p>International journal of molecular sciences</p> <p>Dysregulation of Muscle-Specific MicroRNAs as Common Pathogenic Feature Associated with Muscle Atrophy in ALS, SMA and SBMA: Evidence from Animal Models and Human Patients.</p> <p>"Published figure using PAX7 polyclonal antibody (Product # PA1-117) in Western Blot"</p> <p>Authors: Malacarne C,Galbiati M,Giagnorio E,Cavalcante P,Salerno F,Andreetta F,Cagnoli C,Taiana M,Nizzardo M,Corti S,Pensato V,Venerando A,Gellera C,Fenu S,Pareyson D,Masson R,Maggi L,Dalla Bella E,Lauria G,Mantegazza R,Bernasconi P,Poletti A,Bonanno S,Marcuzzo S</p>	<p>Year 2021</p>

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Immunohistochemistry (5)

<p>iScience</p> <p>Uhrf1 governs the proliferation and differentiation of muscle satellite cells.</p> <p>"PA1-117 was used in Immunohistochemistry to show that Uhrf1 is a critical epigenetic regulator of proliferation and differentiation in satellite cells, by controlling cell-type-specific gene expression via maintenance of DNA methylation."</p> <p>Authors: Sakai H,Sawada Y,Tokunaga N,Tanaka K,Nakagawa S,Sakakibara I,Ono Y,Fukada SI,Ohkawa Y,Kikugawa T,Saika T,Imai Y</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
<p>Genes to cells : devoted to molecular & cellular mechanisms</p> <p>Meflin defines mesenchymal stem cells and/or their early progenitors with multilineage differentiation capacity.</p> <p>"PA1-117 was used in Immunohistochemistry to investigate if Meflin is a useful potential marker to localize Mesenchymal stem cells and/or their immature progenitors in multiple tissues."</p> <p>Authors: Hara A,Kato K,Ishihara T,Kobayashi H,Asai N,Mii S,Shiraki Y,Miyai Y,Ando R,Mizutani Y,Iida T,Takefuji M,Murohara T,Takahashi M,Enomoto A</p>	<p>Year 2021</p> <p>Species Mouse</p>

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More applications with references on thermofisher.com

- ICC/IF (3)
- Misc (1)

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