PAX7 Polyclonal Antibody

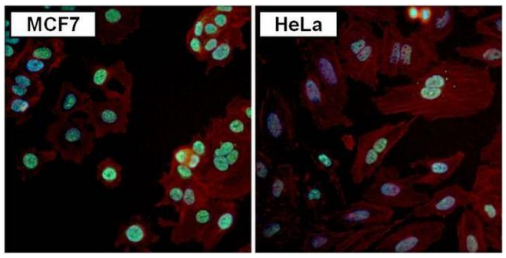
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Purified internal fragment of human recombinant PAX7 expressed in E. coli.
Form	Liquid
Concentration	1 mg/mL
Purification	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	2 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunocytochemistry (ICC/IF)	1:20-1:200	1 Publication
Immunoprecipitation (IP)	3 µg	-
Miscellaneous PubMed (Misc)	-	1 Publication

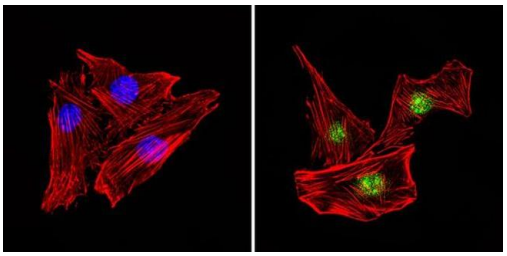
Product Specific Information

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 ths 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.

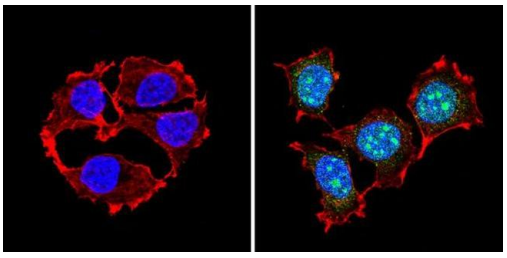
Product Images For PAX7 Polyclonal Antibody



PAX7 Antibody (PA1-117) in 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
Immunofluorescent analysis of PAX7 (green) showing staining in the in the nucleus of C2C12 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 PAX7 polyclonal antibody (Product # PA1-117) 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.



PAX7 Antibody (PA1-117) in ICC/IF
Immunofluorescent analysis of PAX7 (green) showing staining in the in the nucleus of MCF-7 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 PAX7 polyclonal antibody (Product # PA1-117) 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.

View more figures on thermofisher.com

7 References

Western Blot (2)

International journal of molecular sciences

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.

"Published figure using PAX7 polyclonal antibody (Product # PA1-117) in Western Blot"

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

Species
Not Applicable

Dilution
Not Cited

Year
2021

Scientific reports

Efficient differentiation of human pluripotent stem cells into skeletal muscle cells by combining RNA-based MYOD1-expression and POU5F1-silencing.

"PA1-117 was used in Western Blotting to show a rapid and robust method to induce myogenic differentiation of human pluripotent stem cells by introducing mRNA encoding MYOD1 together with siRNA-mediated knockdown of POU5F1."

Authors: Akiyama T,Sato S,Chikazawa-Nohtomi N,Soma A,Kimura H,Wakabayashi S,Ko SBH,Ko MSH

Species
Human

Dilution
Not Cited

Year
2018

Immunohistochemistry (3)

Scientific reports

Interference with SRF expression in skeletal muscles reduces peripheral nerve regeneration in mice.

"PA1-117 was used in Immunohistochemistry to conditionally ablated SRF (serum response factor), an important myofiber transcription factor, in skeletal muscles of mice."

Authors: Wanner R,Knöll B

Species
Mouse
Not Applicable

Dilution
1:200
Not Cited

Year
2020

Nature communications

Histone H3.3 sub-variant H3mm7 is required for normal skeletal muscle regeneration.

"PA1-117 was used in Immunohistochemistry to characterise the function of H3mm7, a histone H3.3 sub-variant expressed in skeletal muscle cells."

Authors: Harada A,Maehara K,Ono Y,Taguchi H,Yoshioka K,Kitajima Y,Xie Y,Sato Y,Iwasaki T,Nogami J,Okada S, Komatsu T,Semba Y,Takemoto T,Kimura H,Kurumizaka H,Ohkawa Y

Species
Mouse

Dilution
1:200

Year
2018

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ICC/IF (1) **Misc (1)**