

PAX6 Polyclonal Antibody

Product Details

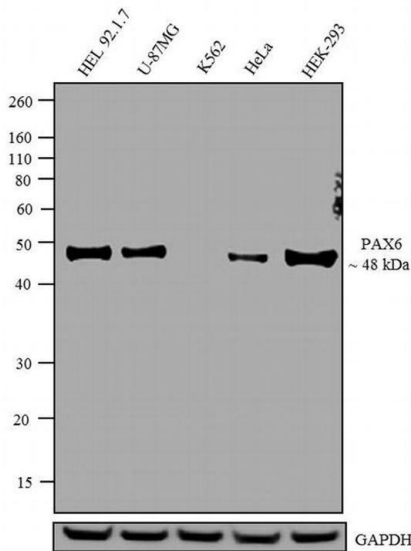
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Human Pax6
Form	Liquid
Concentration	0.25 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533534

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	1 Publication
Immunocytochemistry (ICC/IF)	2-3 µg/mL	10 Publications
Flow Cytometry (Flow)	1:100	1 Publication
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

42-6600 has been successfully used in flow cytometry and immunofluorescence analysis of Pax6 in human neural stem cells derived from pluripotent stem cells and reacts with human samples.

Product Images For PAX6 Polyclonal Antibody

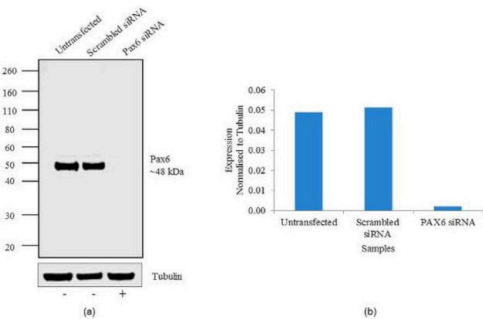


PAX6 Antibody (42-6600) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEL 92.1.7 (Lane 1), U-87MG (Lane 2), K562 (Lane 3), HeLa (Lane 4), and HEK-293 (Lane 5). The blots were probed with Anti-Pax6 Rabbit Polyclonal Antibody (Product # 42-6600, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A ~ 48 kDa band corresponding to Pax6 was observed across cell lines tested except K562. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), 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).

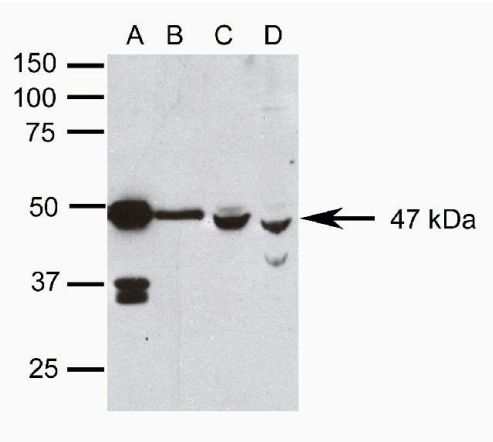
PAX6 Antibody (42-6600)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Pax6 siRNA and decrease in signal intensity was observed in western blot application (Fig a) using PAX6 Polyclonal Antibody (Product # 42-6600). Densitometric analysis of this western blot is shown in histogram (Fig b). {KD}



PAX6 Antibody (42-6600) in WB

Western blot analysis of (A) rat eye, (B) adult mouse brain, and (C) fetal mouse brain homogenates and (D) WERI-RB-1 cell lysates using Rb anti-Pax6 (Product # 42-6600).



View more figures on thermofisher.com

Western Blot (3)

<p>Glia</p> <p>MicroRNA-365 modulates astrocyte conversion into neuron in adult rat brain after stroke by targeting Pax6.</p> <p>Authors: Mo JL,Liu Q,Kou ZW,Wu KW,Yang P,Chen XH,Sun FY</p>	<p>Year 2018</p> <p>Species Rat</p> <p>Dilution 1:1,000</p>
<p>Stem cell reports</p> <p>Development and Dynamic Regulation of Mitochondrial Network in Human Midbrain Dopaminergic Neurons Differentiated from iPSCs.</p> <p>"Published figure using PAX6 polyclonal antibody (Product # 42-6600) in Western Blot"</p> <p>Authors: Fang D,Qing Y,Yan S,Chen D,Yan SS</p>	<p>Year 2016</p>

View more WB references on thermofisher.com

Immunohistochemistry (10)

<p>Stem cell research</p> <p>Generation of two human iPSC lines with Exon 3 mutations in BCL2-Associated Athanogene 3 (BAG3) from dilated cardiomyopathy patients.</p> <p>"42-6600 was used in Immunohistochemistry to generate two human iPSC lines from individuals with mutations in exon 3 of BAG3 and provide validation of their pluripotency and ability to differentiate toward the three primary germ layers."</p> <p>Authors: Zushin PH,Zhou Y,Li A,Ashley EA,Wheeler MT,Wu JC</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:200</p>
<p>Nature ecology & evolution</p> <p>De novo genes with an lncRNA origin encode unique human brain developmental functionality.</p> <p>"42-6600 was used in Immunohistochemistry-immunofluorescence to identify distinctive U1 elements and RNA splice-related sequences accounting for RNA nuclear export, differentiating mRNAs from lncRNAs, and driving the origin of de novo genes from lncRNA loci."</p> <p>Authors: An NA,Zhang J,Mo F,Luan X,Tian L,Shen QS,Li X,Li C,Zhou F,Zhang B, Ji M,Qi J,Zhou WZ,Ding W,Chen JY, Yu J,Zhang L,Shu S,Hu B,Li CY</p>	<p>Year 2023</p> <p>Species Human Mouse</p> <p>Dilution 1:400 1:400</p>

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

- IHC (PFA) (1)
- IHC (F) (1)
- ICC/IF (10)
- Flow (1)
- IP (1)
- Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.