



Anti-Aquaporin 3 antibody ab125219

★★★★★ [5 Abreviews](#) [49 References](#) [6 图像](#)

概述

产品名称	Anti-Aquaporin 3抗体
描述	兔多克隆抗体to Aquaporin 3
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, Flow Cyt (Intra), ICC
种属反应性	与反应: Mouse, Rat, Human, African green monkey
免疫原	<p>Synthetic peptide within Human Aquaporin 3 aa 278-292 (C terminal). The exact sequence is proprietary.</p> <p>Sequence:</p> <p>EENVKLAHVKHKEQI</p> <p>Database link: Q92482 (Peptide available as ab195690)</p> <p> Run BLAST with  Run BLAST with</p>
阳性对照	WB: Mouse and rat kidney tissue lysates. HEK-293 and COS-7 whole cell lysates; IHC-P: Human lung cancer tissue. Mouse and rat kidney tissues; ICC: A431 cells; Flow Cyt (Intra): A431 cells.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	<p>Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide</p> <p>Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate</p>

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab125219于以下的经测试应用

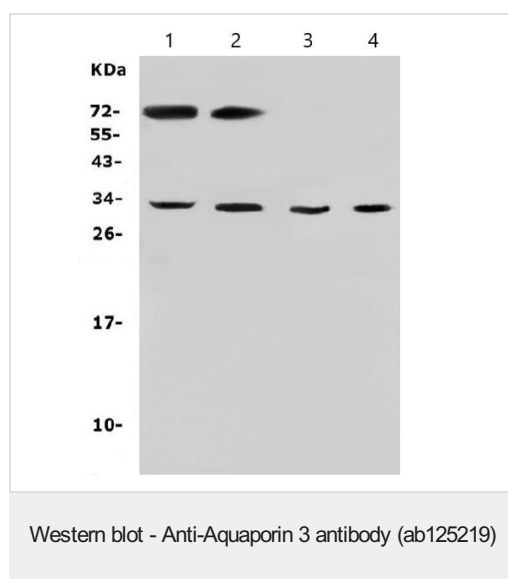
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 0.1 - 0.5 µg/ml. Predicted molecular weight: 32 kDa.
IHC-P	★★★★★ (1)	Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use 1-3µg for 10 ⁶ cells. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC		Use a concentration of 2 µg/ml.

靶标

功能	Water channel required to promote glycerol permeability and water transport across cell membranes. Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism.
组织特异性	Widely expressed in epithelial cells of kidney (collecting ducts) and airways, in keratinocytes, immature dendritic cells and erythrocytes. Isoform 2 is not detectable in erythrocytes at the protein level.
序列相似性	Belongs to the MIP/aquaporin (TC 1.A.8) family.
结构域	Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).
细胞定位	Basolateral cell membrane. In collecting ducts of kidney.

图片



All lanes : Anti-Aquaporin 3 antibody (ab125219) at 0.5 µg/ml (overnight at 4°C)

Lane 1 : Rat kidney tissue lysate

Lane 2 : Mouse kidney tissue lysate

Lane 3 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate

Lane 4 : COS-7 (African green monkey kidney fibroblast-like cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Secondary

All lanes : Goat Anti-rabbit IgG (HRP) for 1.5 hour at room temperature at 1/5000 dilution

Developed using the ECL technique.

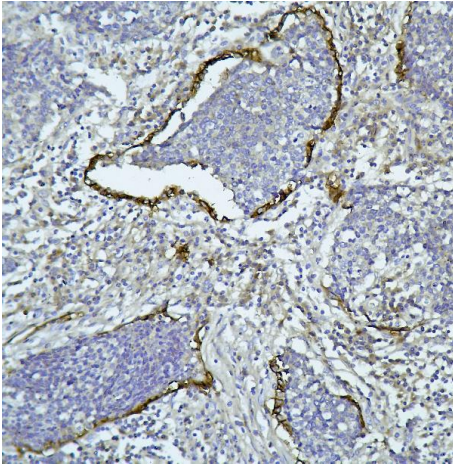
Performed under reducing conditions.

Predicted band size: 32 kDa

Observed band size: 32 kDa

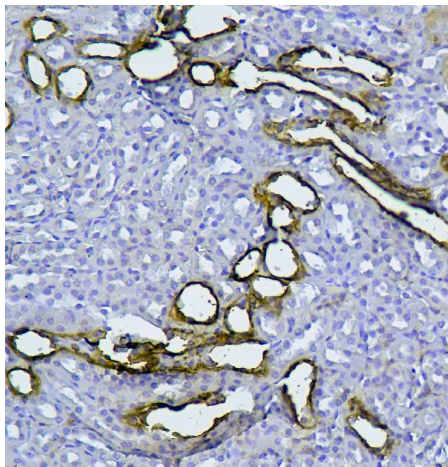
Additional bands at: 72 kDa. We are unsure as to the identity of these extra bands.

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. The membrane was then blocked with 5% Non-fat Milk / TBS for 1.5 hours at room temperature followed by incubation with ab125219. The membrane was then washed with TBS-0.1% Tween 3 times for 5 minutes each and probed with a Goat anti-rabbit IgG (HRP) secondary antibody.



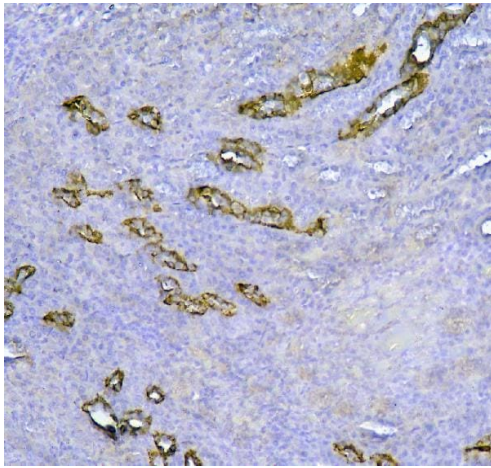
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 3 antibody (ab125219)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue labeling Aquaporin 3 with ab125219 at 1 $\mu\text{g/mL}$. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with ab125219 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



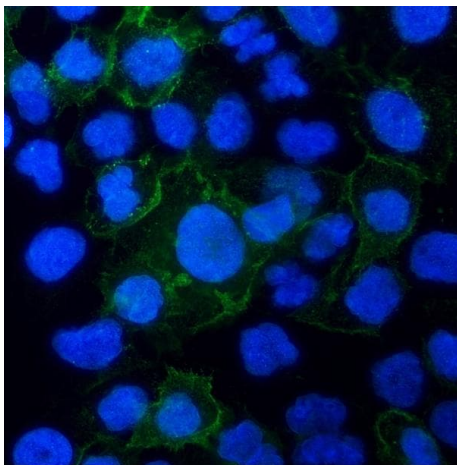
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 3 antibody (ab125219)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue labeling Aquaporin 3 with ab125219 at 1 $\mu\text{g/mL}$. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with ab125219 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



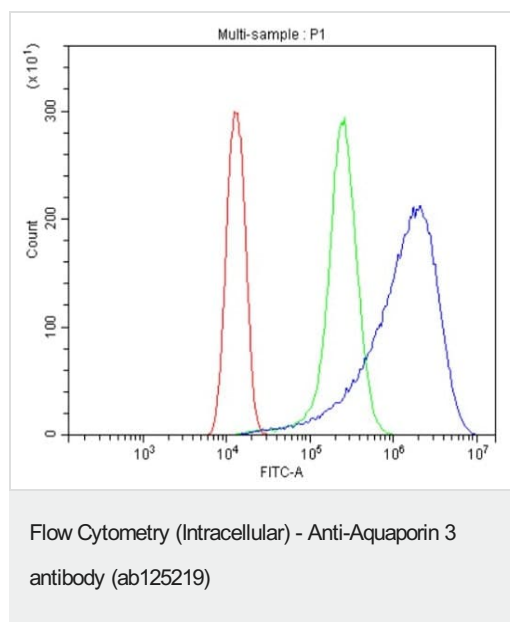
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 3 antibody (ab125219)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue labeling Aquaporin 3 with ab125219 at 1 µg/mL. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with ab125219 overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



Immunocytochemistry - Anti-Aquaporin 3 antibody (ab125219)

Immunocytochemistry analysis of A431 (human epidermoid carcinoma cell line) cells labeling Aquaporin 3 with ab125219 at 2 µg/mL. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum and then incubated with ab125219 overnight at 4°C. DyLight® 488 Conjugated Goat Anti-Rabbit IgG was used as the secondary antibody at 1/100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI and visualized using a fluorescence microscope with filter sets appropriate for the label used.



Overlay histogram showing A431 (human epidermoid carcinoma cell line) cells stained with ab125219 (Blue line). The cells were blocked with 10% normal goat serum and then incubated with rabbit anti-Aquaporin 3 antibody (ab125219, 1 µg/1x10⁶ cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (5-10 µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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