

Product datasheet

Anti-Aquaporin 3 antibody ab125219

★★★★☆ 2 Abreviews 6 References 画像数 9

製品の概要

製品名	Anti-Aquaporin 3 antibody
製品の詳細	Rabbit polyclonal to Aquaporin 3
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP, Flow Cyt, IHC-Fr
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human Aquaporin 3 aa 278-292 (C terminal). Sequence: EENVKLAHVKHKEQI (Peptide available as ab195690) Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: Rat kidney, mouse lung and mouse kidney tissue lysates. IHC-P: Rat kidney tissue. ICC/IF: formaldehyde fixed MCF-7 cells.

法規制情報

医薬用外毒物

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
バッファー	Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide Constituents: 0.1% Dibasic monohydrogen sodium phosphate, 0.45% Sodium chloride, 2.5% BSA
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab125219** in the following tested applications.

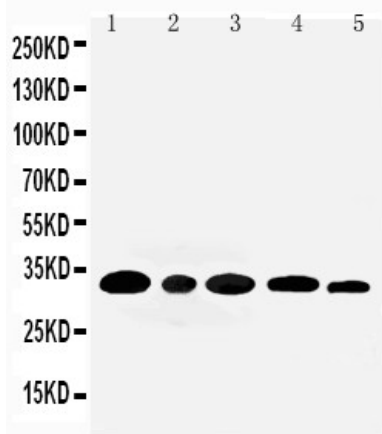
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 31 kDa. Can be blocked with Aquaporin 3 peptide (ab195690) . The detection limit of ab125219 is approximately 1 ng/lane under non-reducing and reducing conditions.
IHC-P	★★★★☆	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 1 µg/ml.
IP		Use a concentration of 5 µg/ml.
Flow Cyt	★★★★☆	Use at an assay dependent concentration. ab171870 -Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use a concentration of 0.5 - 1 µg/ml.

ターゲット情報

機能	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.
組織特異性	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.
配列類似性	Belongs to the MIP/aquaporin (TC 1.A.8) family.
ドメイン	Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).
細胞内局在	Basolateral cell membrane. In collecting ducts of kidney.

画像



Western blot - Anti-Aquaporin 3 antibody (ab125219)

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

Lane 1 : Rat Kidney Tissue Lysate at 50 µg

Lane 2 : Rat Lung Tissue Lysate at 50 µg

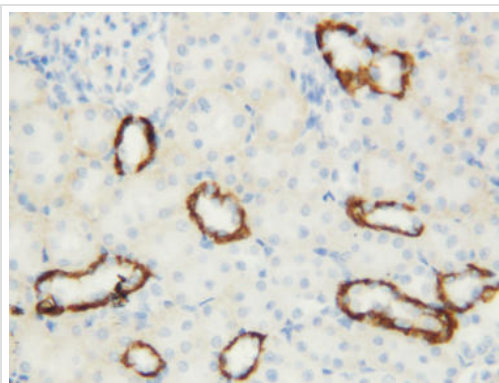
Lane 3 : Mouse Kidney Tissue Lysate at 50 µg

Lane 4 : MM453 Whole Cell Lysate at 40 µg

Lane 5 : SMMC-7721 Whole Cell Lysate at 40 µg

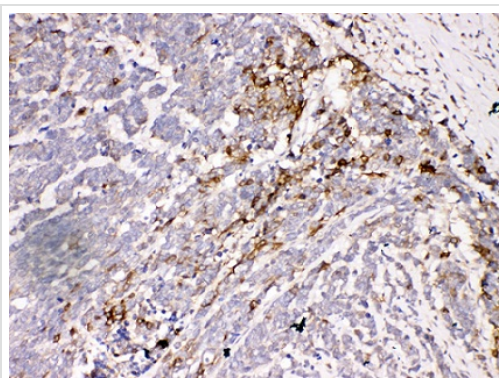
Predicted band size : 31 kDa

Observed band size : 32 kDa



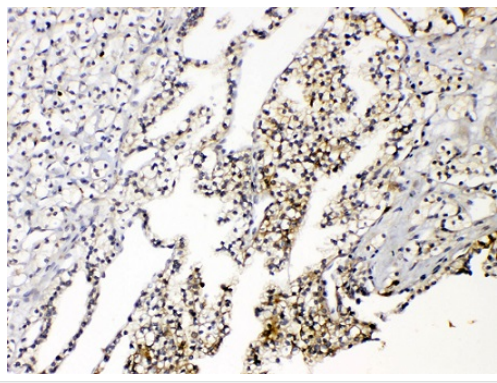
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 3 antibody (ab125219)

ab125219 at 1µg/ml staining Aquaporin 3 in Paraaffin-embedded Rat kidney tissue by Immunohistochemistry.



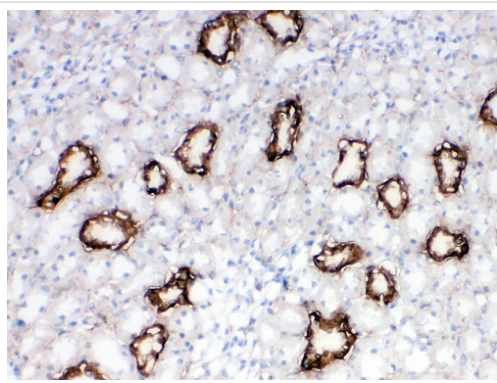
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 3 antibody (ab125219)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human Lung Cancer Tissue labeling Aquaporin 3 with ab125219.



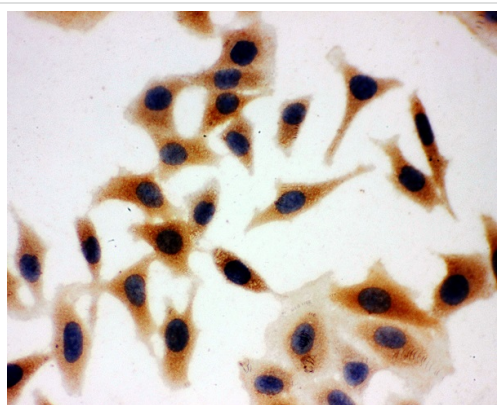
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 3 antibody (ab125219)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human Renal Cancer Tissue labeling Aquaporin 3 with ab125219.



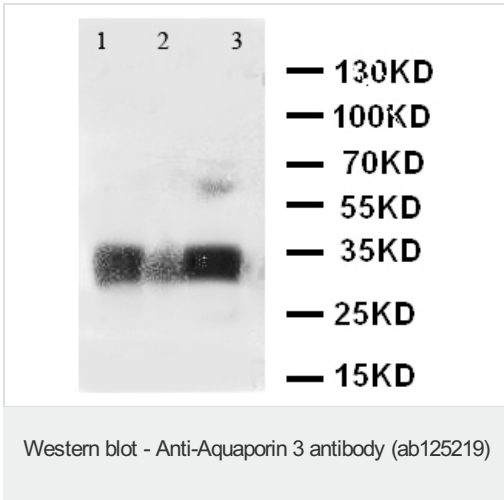
Immunohistochemistry (Frozen sections) - Anti-Aquaporin 3 antibody (ab125219)

Immunohistochemistry (Frozen sections) analysis of Rat Kidney Tissue labeling Aquaporin 3 with ab125219.



Immunocytochemistry/ Immunofluorescence - Anti-Aquaporin 3 antibody (ab125219)

Immunocytochemistry/ Immunofluorescence analysis of HeLa cells labeling Aquaporin 3 with ab125219.



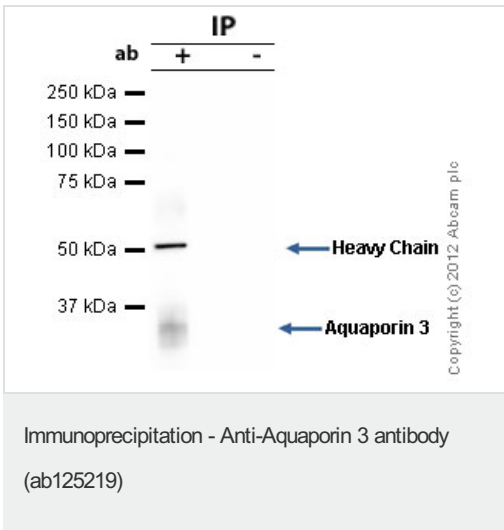
All lanes : Anti-Aquaporin 3 antibody (ab125219) at 1 µg/ml

Lane 1 : Rat kidney tissue lysate

Lane 2 : Mouse lung tissue lysate

Lane 3 : Mouse kidney tissue lysate

Predicted band size : 31 kDa



Aquaporin 3 was immunoprecipitated using 0.5mg Mouse Kidney extract, 5µg of Rabbit polyclonal to Aquaporin 3 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

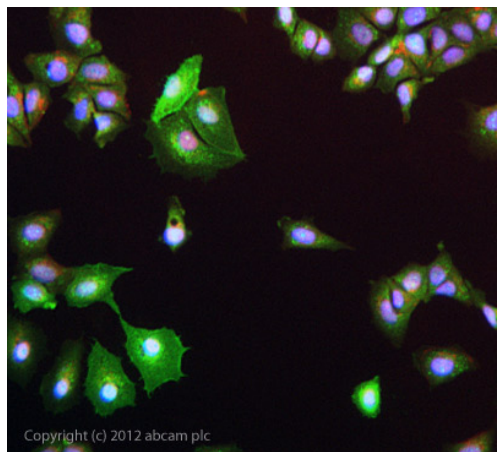
The antibody was incubated under agitation with Protein G beads for 10min, Mouse Kidney extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab125219.

Secondary: Mouse monoclonal [SB62a]

Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

Band: 31kDa: Aquaporin 3.



Immunocytochemistry/ Immunofluorescence - Anti-Aquaporin 3 antibody (ab125219)

ICC/IF image of ab125219 stained MCF-7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab125219 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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