Product datasheet

Anti-Aquaporin 3 antibody ab15117

2 Abreviews 1 References

Overview

Product name Anti-Aquaporin 3 antibody
Description Rabbit polyclonal to Aquaporin 3
Host species Rabbit
Tested applications Suitable for: WB, ELISA, IHC-Fr
Species reactivity Reacts with: Rat
Predicted to work with: Mouse, Human
Immunogen Synthetic peptide (Rat) conjugated to KLH (C terminal).
Positive control Rat kidney medulla or outer cortex.

Properties

Form Liquid
Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer Constituents: Whole serum, 40% Glycerol
Purity Whole antiserum
Clonality Polyclonal
Isotype IgG

Applications

Our Abpromise guarantee covers the use of ab15117 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
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<tr>
<td>ELISA</td>
<td>1/10000 - 1/50000.</td>
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<td>IHC-Fr</td>
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Function
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.

Tissue specificity
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.

Sequence similarities
Belongs to the MIP/aquaporin (TC 1.A.8) family.

Domain
Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).

Cellular localization
Basolateral cell membrane. In collecting ducts of kidney.

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