

Datasheet for ABIN7073471
anti-Chloride Channel 5 antibody

3 Images

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Overview

| | |
|--------------|---|
| Quantity: | 100 µL |
| Target: | Chloride Channel 5 (CLCN5) |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Immunohistochemistry (IHC), Immunofluorescence (IF) |

Product Details

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|-------------------|---|
| Immunogen: | KLH conjugated Synthetic peptide corresponding to Mouse CLC-5 |
| Cross-Reactivity: | Human, Rat |
| Purification: | Affinity purification |

Target Details

| | |
|-------------------|--|
| Target: | Chloride Channel 5 (CLCN5) |
| Alternative Name: | CLC-5 (CLCN5 Products) |
| Background: | The family of voltage-dependent chloride channels (CLCs) regulate cellular trafficking of chloride ions, a critical component of all living cells. CLCs regulate excitability in muscle and nerve cells, aid in organic solute transport and maintain cellular volume. Mutations in the gene encoding CLC1 lead to myotonia, an inheritable disorder characterized by muscle stiffness and renal salt wasting. CLC2 is highly expressed in the epithelia of several organs including lung, which suggests CLC2 may be a possible therapeutic target for cystic fibrosis. CLC3 expression |

Target Details

is particularly abundant in neuronal tissue, while CLC4 expression is evident in skeletal and cardiac muscle as well as brain. Mutations in the gene encoding CLC5 lead to Dent's disease, a renal disorder characterized by proteinuria and hypercalciuria.

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|-----------------|------------------------------|
| Gene ID: | 12728 |
| NCBI Accession: | NP_001230691 |
| UniProt: | Q9WVD4 |

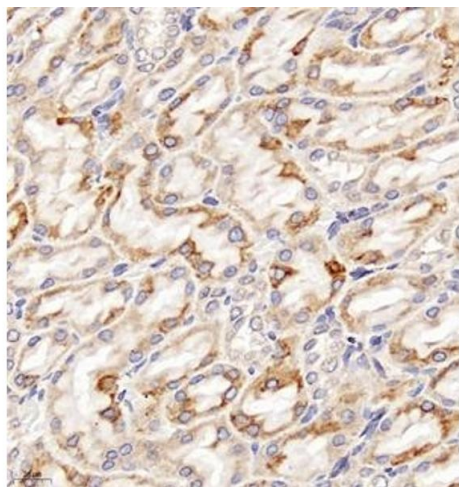
Application Details

| | |
|--------------------|----------------------------|
| Application Notes: | IHC/IF (H,M,R) 1:100-1:400 |
| Restrictions: | For Research Use only |

Handling

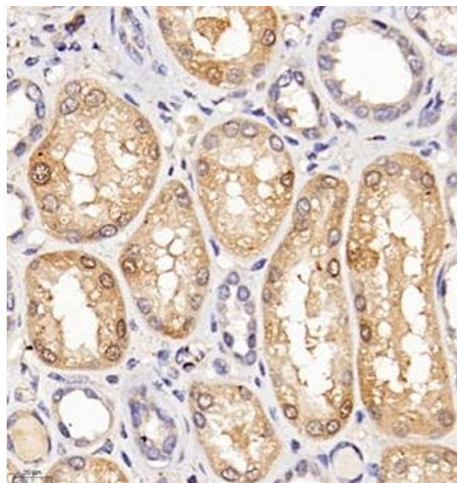
| | |
|--------------------|--|
| Format: | Liquid |
| Buffer: | PBS, pH 7.4, 0.02 % sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |

Images



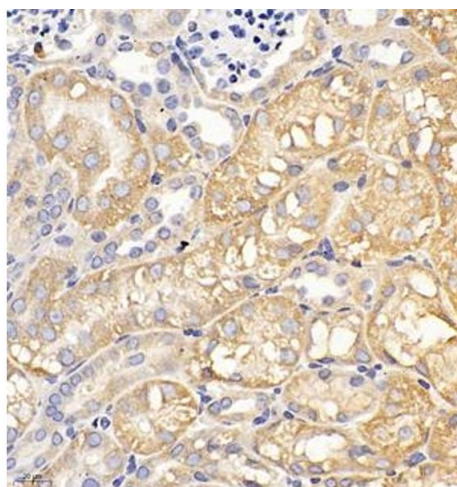
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin embedded rat kidney using Clcn5 (ABIN7073471) at dilution of 1:200 (400x lens)



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin embedded human kidney using Clcn5 (ABIN7073471) at dilution of 1:200 (400x lens)



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin embedded mouse kidney using Clcn5 (ABIN7073471) at dilution of 1:200 (400x lens)