

## Rabbit anti-Human CLCNKA Polyclonal Antibody | anti-CLCNKA antibody

CLCNKA Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                 |
|-----------|--------|------------|--------------------------------------------------------------|
| AAA324606 | Rabbit | Human      | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

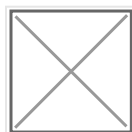
### PRODUCT SYNONYMS

CLCNKA; Polyclonal Antibody; CLCNKA Antibody; C75963; Chloride channel Ka; Chloride channel kidney A; Chloride channel protein CIC Ka; Chloride channel protein CIC-Ka; CIC K1; CIC-K1; CLCK1; hCIC Ka; MGC61490; MGC93313; RP23-308N2.5; anti-CLCNKA antibody

### PRODUCT SPECIFICATIONS

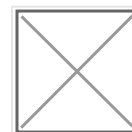
|                                                  |                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                   |
| Reactivity                                       | Human                                                                                                    |
| Clonality                                        | Polyclonal                                                                                               |
| Isotype                                          | IgG                                                                                                      |
| Specificity                                      | CLCNKA antibody detects endogenous levels of total CLCNKA                                                |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.            |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.            |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                   |
| Sequence Length                                  | 686                                                                                                      |
| Applicable Applications for anti-CLCNKA antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                             |
| Immunogen                                        | A synthesized peptide                                                                                    |
| Subcellular Location                             | Membrane; Multipass Membrane Protein.                                                                    |
| Tissue Specificity                               | Expressed predominantly in the kidney. All nephron segments expressing BSND also express CLCNK proteins. |
| Predicted Cross Reactivity                       | <b>Pig, Bovine, Dog</b>                                                                                  |
| Similarity                                       | Pig (82%), Bovine (82%), Dog (80%)                                                                       |
| Conjugation                                      | Unconjugated                                                                                             |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                        |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from HuvEc cells, using CLCNKA antibody. The lane on the left is treated with the antigen-specific peptide.



#### IF (Immunofluorescence)

AAA324606 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CLCNKA antibody | Function: Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume; membrane potential stabilization, signal transduction and transepithelial transport. May be important in urinary concentrating mechanisms.<br>Subunit Structure: Homodimer (PubMed:17562318). Interacts with BSND. Forms heteromers with BSND in the thin ascending limb of Henle (By similarity).<br>Similarity: Belongs to the chloride channel (TC 2.A.49) family. CLCNKA subfamily. |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 112382222                                              |
| NCBI GeneID                      | 1187                                                   |
| NCBI Accession #                 | NP_001036169.1                                         |
| NCBI GenBank Nucleotide #        | NM_001042704.1                                         |
| UniProt Accession #              | P51800; Q5T5P8; Q5T5Q4; Q7Z6D1; Q86VT1; B4DPD3; E7EPH6 |
| Molecular Weight                 | Observed: 75 kD<br>Predicted: 76 kDa                   |
| NCBI Official Full Name          | chloride channel protein ClC-Ka isoform 2              |
| NCBI Official Synonym Full Names | chloride voltage-gated channel Ka                      |
| NCBI Official Symbol             | CLCNKA                                                 |
| NCBI Official Synonym Symbols    | CLCK1; ClC-K1; hClC-Ka                                 |
| NCBI Protein Information         | chloride channel protein ClC-Ka                        |
| UniProt Protein Name             | Chloride channel protein ClC-Ka                        |
| UniProt Gene Name                | CLCNKA                                                 |
| UniProt Synonym Gene Names       | Chloride channel Ka                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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