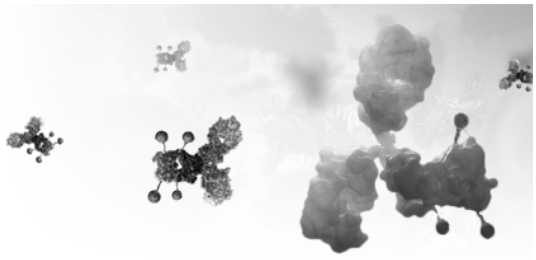

# Mouse anti-Human CLCN7 monoclonal antibody, clone 5B4 (CABT-B9981)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Immunogen** | CLCN7 (NP_001278, 706 a.a. ~ 806 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Isotype** | IgG2a |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | 5B4 |
| **Conjugate** | Unconjugated |
| **Applications** | WB,ELISA |
| **Sequence Similarities** | LRLKDFRDAYPRFPPIQSIHVSQDERECTMDLSEFMNPSPYTVPQEASLPRVFKLFRALG LRHLVVVDNRNQVVGLVTRKDLARYRLGKRGLEELSLAQT* |
| **Format** | Liquid |
| **Size** | 50 µg |
| **Buffer** | In 1x PBS, pH 7.2 |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## BACKGROUND

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|---|---|
| **Introduction** | The product of this gene belongs to the CLC chloride channel family of proteins. Chloride channels play important roles in the plasma membrane and in intracellular organelles. This |

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| | |
|---|---|
| | gene encodes chloride channel 7. Defects in this gene are the cause of osteopetrosis autosomal recessive type 4 (OPTB4), also called infantile malignant osteopetrosis type 2 as well as the cause of autosomal dominant osteopetrosis type 2 (OPTA2), also called autosomal dominant Albers-Schonberg disease or marble disease autosoml dominant. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. OPTA2 is the most common form of osteopetrosis, occurring in adolescence or adulthood. [provided by RefSeq, Jul 2008] |
| **Keywords** | CLCN7; chloride channel, voltage-sensitive 7; CLC7; CLC-7; OPTA2; OPTB4; PPP1R63; H(+)/Cl(-) exchange transporter 7; chloride channel protein 7; chloride channel 7 alpha subunit; protein phosphatase 1, regulatory subunit 63; |

# GENE INFORMATION

| | |
|---|---|
| **Entrez Gene ID** | 1186 |
| **UniProt ID** | Q9BRN4 |
| **Function** | ATP binding; antiporter activity; chloride channel activity; ion channel activity; nucleotide binding; voltage-gated chloride channel activity |

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