




Product datasheet

Anti-CLC7 antibody ab230533

2 Images

Overview

<b>Product name</b>	Anti-CLC7 antibody
<b>Description</b>	Rabbit polyclonal to CLC7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide corresponding to Human CLC7 aa 10-59. Sequence: WSGRDRDDEEAAPLLRRTARPGGGTPLLNGAGPGAARQ SPRSALFRVGHM  Database link: <a href="#">P51798</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human testis and spleen tissue.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 0.87% Sodium chloride, 50% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab230533** in the following tested applications.

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

Application	Abreviews	Notes
IHC-P		1/50.

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## Target

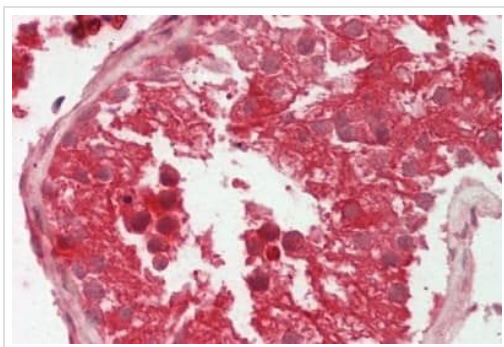
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<b>Function</b>	Mediates the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the lysosome lumen.
<b>Tissue specificity</b>	Brain, testis, muscle and kidney.
<b>Involvement in disease</b>	<p>Defects in CLCN7 are the cause of osteopetrosis autosomal recessive type 4 (OPTB4) [MIM:611490]; also known as infantile malignant osteopetrosis type 2. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood.</p> <p>Defects in CLCN7 are the cause of osteopetrosis autosomal dominant type 2 (OPTA2) [MIM:166600]; also known as autosomal dominant Albers-Schonberg disease or marble disease autosomal dominant. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. OPTA2 is the most common form of osteopetrosis, occurring in adolescence or adulthood. It is characterized by sclerosis, predominantly involving the spine, the pelvis and the skull base.</p>
<b>Sequence similarities</b>	Belongs to the chloride channel (TC 2.A.49) family. CIC-7/CLCN7 subfamily. Contains 2 CBS domains.
<b>Cellular localization</b>	Lysosome membrane.

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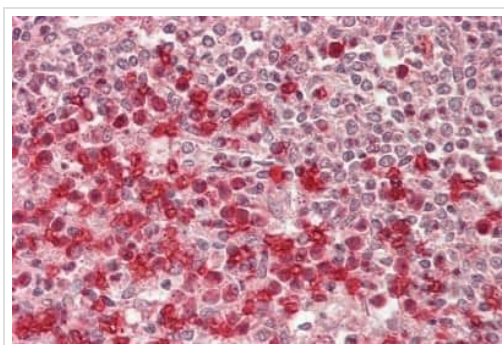
## Images

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLC7 antibody (ab230533)

Formalin-fixed, paraffin-embedded human testis tissue stained for CLC7 with ab230533 at 1/50 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLC7 antibody (ab230533)

Formalin-fixed, paraffin-embedded human spleen tissue stained for CLC7 with ab230533 at 1/50 dilution in immunohistochemical analysis.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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