Datasheet for ABIN655808

anti-CLCN7 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	CLCN7
Binding Specificity:	AA 692-720, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CLCN7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CLCN7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 692-720 amino acids from the C-terminal region of human CLCN7.
Clone:	RB31756
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CLCN7

Target Details

Alternative Name:	CLCN7 (CLCN7 Products)
Background:	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 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.
Molecular Weight:	88679
Gene ID:	1186
NCBI Accession:	NP_001107803, NP_001278
UniProt:	P51798

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

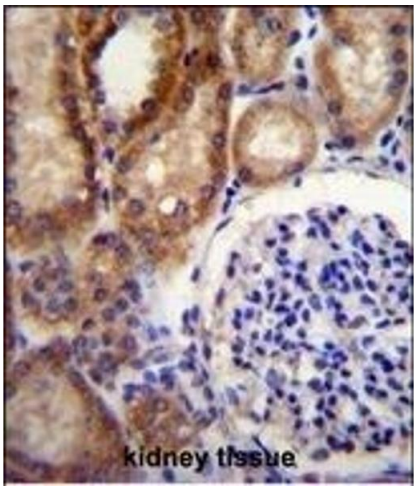
Product cited in:

Davidson, Robinson, Rollinson, Pickering-Brown, Xiao, Robertson, Mann: " Immunohistochemical detection of C9orf72 protein in frontotemporal lobar degeneration and motor neurone disease: patterns of immunostaining and an evaluation of commercial antibodies." in: **Amyotrophic lateral sclerosis & frontotemporal degeneration**, Vol. 19, Issue 1-2, pp. 102-111, (2018) (PubMed).

Sullivan, Zhou, Robins, Paushter, Kim, Smolka, Hu: "The ALS/FTLD associated protein C9orf72 associates with SMCR8 and WDR41 to regulate the autophagy-lysosome pathway." in: **Acta neuropathologica communications**, Vol. 4, Issue 1, pp. 51, (2017) (PubMed).

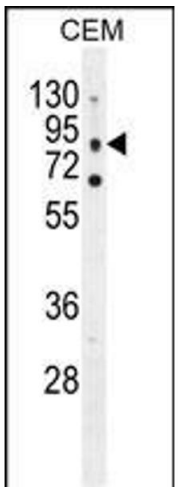
Burberry, Suzuki, Wang, Moccia, Mordes, Stewart, Suzuki-Uematsu, Ghosh, Singh, Merkle, Koszka, Li, Zon, Rossi, Trowbridge, Notarangelo, Eggan: "Loss-of-function mutations in the C9ORF72 mouse ortholog cause fatal autoimmune disease." in: **Science translational medicine**, Vol. 8, Issue 347, pp. 347ra93, (2017) (PubMed).

Images



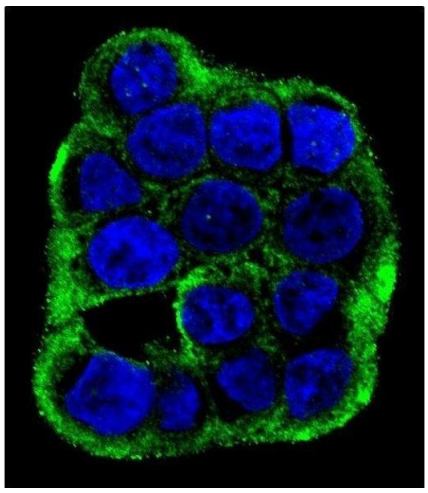
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. CLCN7 Antibody (C-term) (ABIN655808 and ABIN2845235) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CLCN7 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. CLCN7 Antibody (C-term) (ABIN655808 and ABIN2845235) western blot analysis in CEM cell line lysates (35 µg/lane).This demonstrates the CLCN7 antibody detected the CLCN7 protein (arrow).



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of CLCN7 Antibody (C-term) (ABIN655808 and ABIN2845235) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DI was used to stain the cell nuclear (blue).