

Product datasheet

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ARG43213 anti-Aquaporin 7 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Aquaporin 7

Tested Reactivity Hu

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Aquaporin 7

Species Human

Immunogen Synthetic peptide around the C-terminal region of Human Aquaporin 7. (within the following region:

DSVAYEDHGITVLPKMGSHEPTISPLTPVSVSPANRSSVHPAPPLHESMA)

Conjugation Un-conjugated

Alternate Names Aquaporin-7; AQP7L; AQPap; AQP-7; GLYCQTL; Aquaporin-7-like; AQP9; Aquaporin adipose;

Aquaglyceroporin-7

Application Instructions

Application table	Application	Dilution
	WB	0.2 - 1 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human heart	
Observed Size	~ 32 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.

Preservative 0.09% (w/v) Sodium azide

Stabilizer 2% Sucrose

Concentration Batch dependent: 0.5 - 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

Gene Symbol AQP7

Gene Full Name aquaporin 7

Background This gene encodes a member of the aquaporin family of water-selective membrane channels. The

encoded protein localizes to the plasma membrane and allows movement of water, glycerol and urea across cell membranes. This gene is highly expressed in the adipose tissue where the encoded protein facilitates efflux of glycerol. In the proximal straight tubules of kidney, the encoded protein is localized to the apical membrane and prevents excretion of glycerol into urine. The encoded protein is present in spermatids, as well as in the testicular and epididymal spermatozoa suggesting an important role in late spermatogenesis. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. This gene is located adjacent to a related aquaporin gene on chromosome 9.

Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Dec 2015]

Function Forms a channel that mediates water and glycerol transport across cell membranes at neutral pH

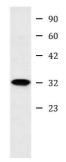
(PubMed:9405233, PubMed:11952783, PubMed:30423801, PubMed:30420639). The channel is also permeable to urea (PubMed:9405233). Plays an important role in body energy homeostasis under conditions that promote lipid catabolism, giving rise to glycerol and free fatty acids. Mediates glycerol export from adipocytes. After release into the blood stream, glycerol is used for gluconeogenesis in the liver to maintain normal blood glucose levels and prevent fasting hypoglycemia. Required for normal

glycerol reabsorption in the kidney (By similarity). [UniProt]

Calculated Mw 37 kDa

Cellular Localization Membrane; Multi-pass membrane protein. [UniProt]

Images



ARG43213 anti-Aquaporin 7 antibody WB image

Western blot: Human heart lysate stained with ARG43213 anti-Aquaporin 7 antibody at 0.2 - 1 $\mu g/ml$ dilution.

Human heart