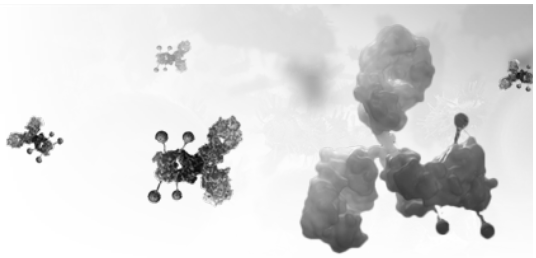

Mouse Anti-AQP11 monoclonal antibody, clone 9I0 (CABT-RM173)

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

PRODUCT INFORMATION

Specificity	Specifically detects Aquaporin-11 in multiple species. It targets an epitope with in 12 amino acids from the C-terminal region.
Target	AQP11
Immunogen	KLH-conjugated linear peptide corresponding to 12 amino acids from the C-terminal region of human Aquaporin-11.
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Horse, Mouse, Rat
Clone	9I0
Purification	Protein G purified
Conjugate	unconjugated
Applications	IHC, IP, WB
Molecular Weight	30.20 kDa calculated.
Format	Liquid
Size	100 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

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Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	Aquaporin-11 is encoded by the AQP11 gene in human. Aquaporins are a family of 13 integral membrane proteins that are essential for water transport across membranes. AQP-11 is a multi-pass membrane protein that displays several unique features. Human AQP-11 displays high degree of homology with mouse, rat and horse AQP-11. The water permeability of AQP-11 is shown to be about 8-fold lower than AQP-1 and it is reversibly inhibited by mercury ions. It is shown to be involved in slow, but constant water movement across the membrane. AQP-11 shares two tandem repeats with other aquaporins, each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA; aa 99-101 and 216-218). However, the first tandem repeat of AQP-11 contains cysteine instead of alanine. AQP-11 is detected in photoreceptor cells and it shown to be down-regulated in retina in cases of uveitis.
Keywords	AQP11; aquaporin 11; AQPX1; aquaporin-11; AQP-11

GENE INFORMATION

Entrez Gene ID	282679
UniProt ID	Q8NBQ7

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