



Anti-AQP1 monoclonal antibody, clone 7D11 (CABT-54448MA)

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

PRODUCT INFORMATION

Product Overview	Mouse anti Aquaporin 1 antibody, clone 7D11 recognizes an epitope within an extracellular region of the water-specific channel aquaporin 1 (also known as AQP1 or CHIP-28) Aquaporin 1 is a 28kDa integral membrane protein which was originally identified in red blood cells and renal proximal tubules. AQP1 is also expressed by the choroid plexus and various other tissues. The glycosylated forms of AQP1 range between 40-60kDa in mass.
Specificity	AQP1
Immunogen	Synthetic peptide corresponding to amino acids 198-208 of rat aquaporin 1.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Rat, Human, Mouse
Clone	7D11
Conjugate	Unconjugated
Applications	ELISA; FC; IHC-P; WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	0.1% Sodium Azide
Storage	in frost-free freezers is not recommended.

GENE INFORMATION

Gene Name	Aqp1 aquaporin 1 [Rattus norvegicus (Norway rat)]
Official Symbol	AQP1
Synonyms	AQP1; aquaporin 1; CHIP28; aquaporin-1; AQP-1; aquaporin-CHIP; Aquaporin 1 (aquaporin channel forming integral protein 28 (CHIP)); water channel protein for red blood cells and kidney proximal tubule;
Entrez Gene ID	25240
Protein Refseq	NP_036910
UniProt ID	P29975
Chromosome Location	4q24
Pathway	Aquaporin-mediated transport; Bile secretion; Erythrocytes take up carbon dioxide and release oxygen; Erythrocytes take up oxygen and release carbon dioxide; Metabolism; O2/CO2 exchange in erythrocytes; Passive transport by Aquaporins; Proximal tubule bicarbonate reclamation;
Function	ammonium transmembrane transporter activity; carbon dioxide transmembrane transporter activity; ephrin receptor binding; glycerol channel activity; glycerol transmembrane transporter activity; intracellular cGMP activated cation channel activity; nitric oxide transmembrane transporter activity; potassium channel activity; potassium ion transmembrane transporter activity; protein binding; transmembrane transporter activity; water channel activity; water transmembrane transporter activity;