Best Tools for immunology Research

AQP7 rabbit pAb

Catalog No :	YT7021
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	AQP7
Fields :	>>PPAR signaling pathway;>>Regulation of lipolysis in adipocytes
Gene Name :	AQP7 AQP7L AQP9
Protein Name :	AQP7
Human Gene Id :	364
Human Swiss Prot No :	O14520
Mouse Gene Id :	11832
Mouse Swiss Prot No :	O54794
Rat Gene Id :	29171
Rat Swiss Prot No :	P56403
Immunogen :	Synthesized peptide derived from human AQP7 AA range: 136-186
Specificity :	This antibody detects endogenous levels of AQP7 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1□500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 38kD

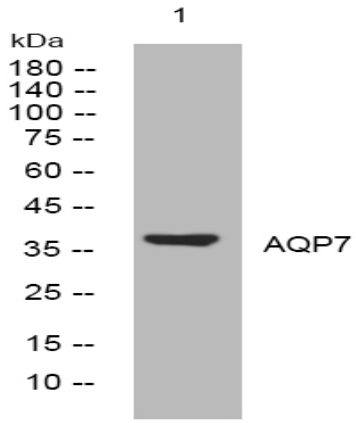
Background : This gene encodes a member of the aquaporin family of water-selective membrane channels. The encoded protein localizes to the plasma membrane and allows movement of water, glycerol and urea across cell membranes. This gene is highly expressed in the adipose tissue where the encoded protein 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 : domain:Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro/Ala-Ala/Ser (NPA).,function:Forms a channel for water and glycerol.,similarity:Belongs to the MIP/aquaporin (TC 1.A.8) family.,

Subcellular Location : Cell membrane ; Multi-pass membrane protein . Cytoplasm, cell cortex . Cytoplasmic vesicle membrane ; Multi-pass membrane protein . Lipid droplet . Internalized from the cell membrane in response to catecholamine-induced activation of PKA; detected on intracellular membranes and colocalizes with lipid droplets (By similarity). Colocalizes with PLIN1 in adipocytes, probably on lipid droplets (PubMed:27832861). .

Expression : Detected in the sperm head (at protein level) (PubMed:28042826). Detected in white adipose tissue (PubMed:9405233).

Products Images



Western blot analysis of lysates from MCF-7 cells, primary antibody was diluted at 1:1000, 4°over night