





Human Aquaporin 4,AQP-4 ELISA Kit

Product Code	CSB-E08254h
Abbreviation	AQP4
Protein Biological Process 1	Transport
Target Name	aquaporin 4
Uniprot No.	P55087
Alias	HMIWC2, MGC22454, MIWC, aquaporin type4 aquaporin-4 mercurial-insensitive water channel
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Transport
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5° Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Gene Names	AQP4
Tag Info	quantitative









Protein Description	Sandwich			
Component	Human AC Two vials I read the O One vial B as the dete One vial H antibody a One vial B One vial S concentrat One vial W or free sub One vial T interacts w One vial S color imme	ro ELISA plateThe 96-well plate has been pre-coated with an anti- an AQP-4 antibody. Vials lyophilized standardDilute a bottle of the standard at dilution series, the OD values, and then draw a standard curve. Vial Biotin-labeled AQP-4 antibody (100 x concentrate) (120 μl/bottle)Act detection antibody. Vial HRP-avidin (100 x concentrate) (120 μl/bottle)Bind to the detection ody and react with the TMB substrate to make the solution chromogenic. Vial Biotin-antibody Diluent (15 ml/bottle)Dilute the Biotin-antibody. Vial HRP-avidin Diluent (15 ml/bottle)Dilute the HRP-avidin solution.		
Description	Human AC	QP4 protein in serum, pla its detection range is 0.1	designed for the quantitative measurement of asma, tissue homogenates. It is a Sandwich 56 ng/mL-10 ng/mL and the sensitivity is	
Target Details	proteins th many cells Two altern	at function as water-seles. The encoded protein is	the aquaporin family of intrinsic membrane ective channels in the plasma membranes of the predominant aquaporin found in brain. Variants encoding distinct isoforms have	
Product Precision	Three san to assess. Inter-assa	nples of known concentraction by Precision be	thin an assay): CV%<8% ation were tested twenty times on one plate etween assays): CV%<10% ation were tested in twenty assays to	
Linearity	concentra	tions of human AQP-4 in	y, samples were spiked with high various matrices and diluted with the Sample alues within the dynamic range of the assay. Serum(n=4) 96 92-103 87 82-93 92 87-96	











1:8	Average %	90
	Range %	88-93

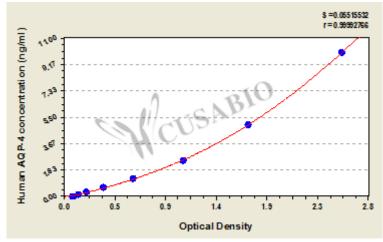
Recovery

The recovery of human AQP-4 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	98	90-106
EDTA plasma (n=4)	92	85-99

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml OD1 OD2 Average Corrected

-			-	
10	2.568	2.555	2.562	2.472
5	1.725	1.678	1.702	1.612
2.5	1.113	1.101	1.107	1.017
1.25	0.647	0.639	0.643	0.553
0.625	0.381	0.356	0.369	0.279
0.312	0.218	0.209	0.214	0.124
0.156	0.147	0.137	0.142	0.052
0	0.092	0.088	0.090	?

Msds

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