

Anti-AQP4 antibody (256-323) [S2MR] (STJ11101292)

GENERAL INFORMATION

Product Type	Primary antibodies
Applications	WB/IHC-P/IF/ICC/ELISA
Host / Source	Rabbit
Reactivity	Human/Mouse/Rat

PRODUCT PROPERTIES

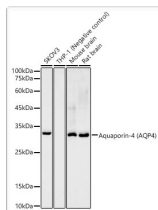
Clonality	Monoclonal
Concentration	Lot specific
Conjugation	Unconjugated
Purification	Affinity purification
Dilution Range	WB:1:500-1:1000 IHC-P:1:200-1:800 IF/ICC:1:200-1:800 ELISA:Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
Formulation	PBS with 0.05% Proclin300, 0.05% BSA, 50% Glycerol, pH 7.3.
Isotype	IgG
Molecular Weight	Protein Mw: 32kDa/34kDa Observed Mw: 35kDa
Storage Instruction	Store at -20°C for up to 1 year from the date of receipt, and avoid repeat freeze-thaw cycles.

TARGET INFORMATION

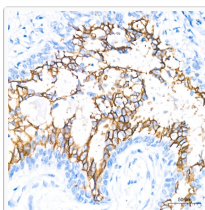
Gene ID	361
Gene Symbol	AQP4
UniProt ID	AQP4_HUMAN
Immunogen Region	256-323
Immunogen Sequence	VEFKRRFKEAFSKAAQQTGK SYMEVEDNRSQVETDDLILK PGVVHVIDVDRGEEKKGKDQ SGEVLSSV
Specificity	Recombinant fusion protein containing a sequence corresponding to amino acids 256-323 of human Aquaporin-4 (AQP4) (NP_001641.1).

ADDITIONAL INFORMATION

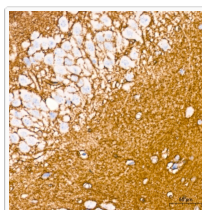
Note	STRICTLY FOR FURTHER SCIENTIFIC RESEARCH USE ONLY (RUO). MUST NOT TO BE USED IN DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.
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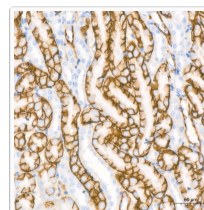
Western blot analysis of various lysates, using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at 1:900 dilution. Secondary antibody: HRP Goat Anti-rabbit IgG (H+L) (STJS000856) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% non-fat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 180s.



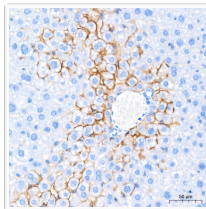
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded human lung cancer tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



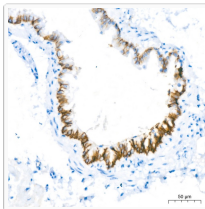
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse brain tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



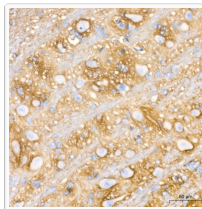
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse kidney tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



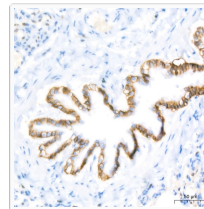
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse liver tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



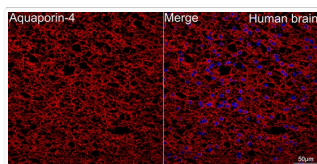
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded mouse lung tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



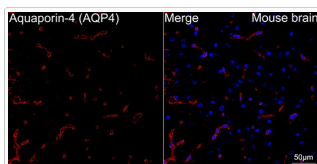
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded rat brain tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



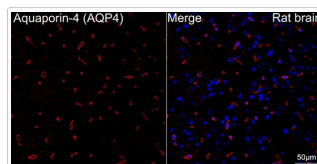
Immunohistochemistry analysis of Aquaporin-4 (AQP4) in paraffin-embedded rat lung tissue using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to immunohistochemistry staining.



Confocal imaging of human brain using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292, dilution 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 40x. Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.



Confocal imaging of paraffin-embedded mouse brain using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-rabbit IgG (H+L) (dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of paraffin-embedded rat brain using Aquaporin-4 (AQP4) rabbit monoclonal antibody (STJ11101292, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-rabbit IgG (H+L) (dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.