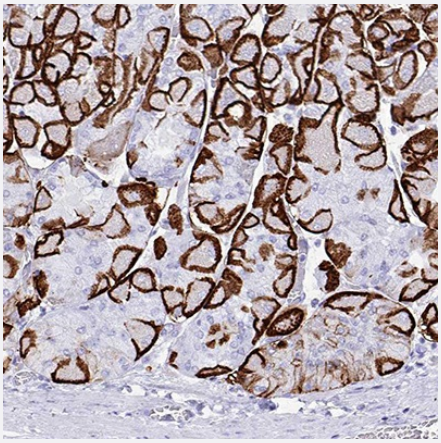
Sm Size

AQP4 polyclonal antibody

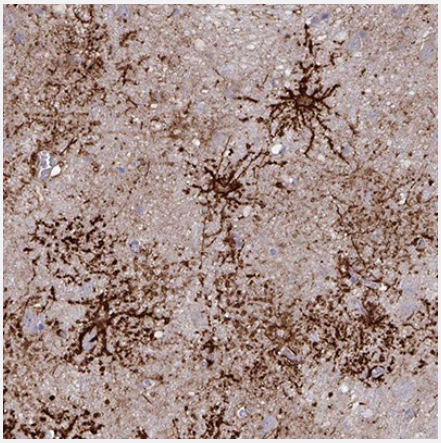
Catalog # PAB31827 Size 25 uL, 100 uL

Applications



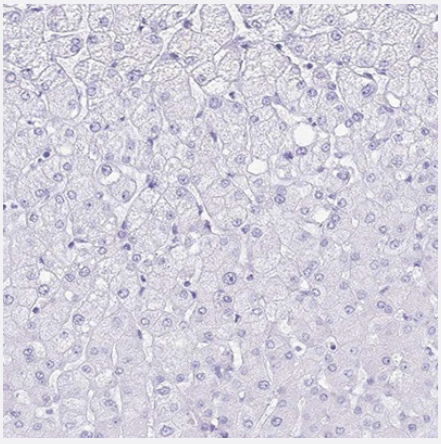
Immunohistochemistry

Immunohistochemical staining of human stomach shows strong membranous positivity in glandular cells.



Immunohistochemistry

Immunohistochemical staining of human cerebral cortex shows strong membranous positivity in astrocytes.



Immunohistochemistry

Immunohistochemical staining of human liver shows no positivity in hepatocytes, as expected.

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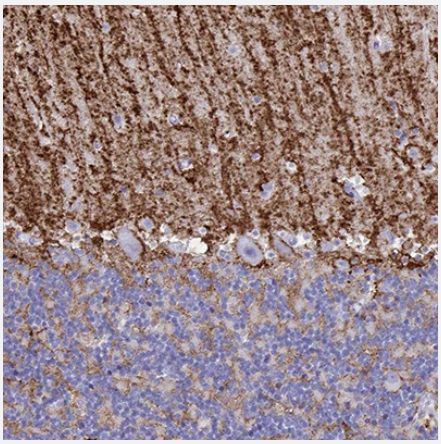
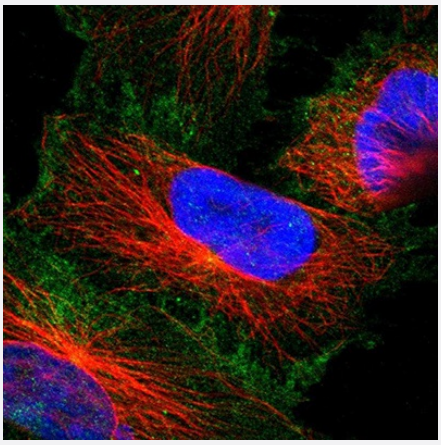


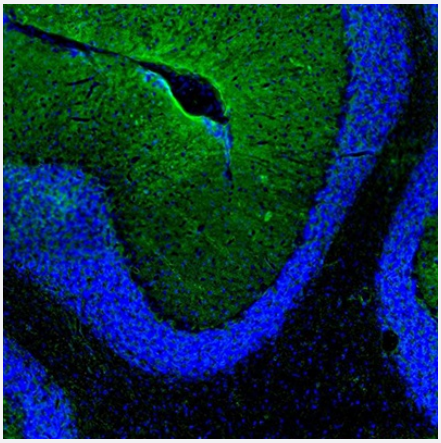
Immunohistochemistry

Immunohistochemical staining of human cerebellum shows strong membranous positivity in astrocytes, mainly in the molecular layer.



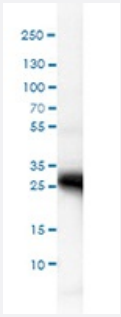
Immunofluorescence

Immunofluorescent staining of human cell line U-251 MG shows localization to plasma membrane.



Immunofluorescence

Immunofluorescent staining of mouse cerebellum shows positivity in astrocytes, mainly in the molecular layer.



Western Blot (Tissue lysate)

Western blot analysis of human brain tissue.

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Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human AQP4.
Sequence	CPDVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVETDDLILKPGVVHVIDVDRGEEKKGKDQ SGEVLSSV
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody reacts to AQP4.
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (0.25-2 ug/mL) Immunohistochemistry (1:2500 - 1:5000) Western Blot (0.04-0.4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Western Blot (Tissue lysate)

  Western blot analysis of human brain tissue.

Gene Info — AQP4

Entrez GeneID	361
Gene Name	AQP4
Gene Alias	HMIWC2, MGC22454, MIWC
Gene Description	aquaporin 4
Omim ID	600308
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. The encoded protein is the predominant aquaporin found in brain. Two alternatively spliced transcript variants encoding distin ct isoforms have been found for this gene. [provided by RefSeq
Other Designations	aquaporin type4|aquaporin-4|mercurial-insensitive water channel

Disease

- Atherosclerosis
- Brain Edema
- Brain Injuries
- Epilepsy

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- Genetic Predisposition to Disease
- Infarction
- Migraine Disorders
- Schizophrenia
- Sclerosis
- Sudden Infant Death

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