

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for human Aquaporin-4 around aa 315 in Direct ELISA.
Source	Monoclonal Mouse IgG Clone # 1093722
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # P55087
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Aquaporin 4, AQP4, is a 35kDa water channel protein that plays an important role in brain water homeostasis. AQP4 is highly expressed in the end feet of astrocytes in the brain and CNS with the largest presence in the cerebellum and spinal cord grey matter. It can also be located in epithelial cells of many organs throughout the body. The main function of AQP4 is to provide fast water transportation and homeostatic balance throughout the central nervous system.

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