



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI AQUAPORIN 1

With HRP-conjugated Secondary Antibody

Catalog No.	Species	Isotype
DS-MB-00092	Human	IgG1

Preparation

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

Immunogen: Synthetic peptide corresponding to amino acids 249-269 of rat aquaporin 1.

Fusion Partners: Spleen cells from immunized Balb/c mice were fused with the cells of the Sp-2/0 Ag14 mouse myeloma cell line.

Specificity

This product recognizes an epitope within the cytoplasmic domain of the water-specific channel aquaporin 1 (also known as AQP1 or CHIP-28).

Aquaporin 1 is a 28kD integral membrane protein which was originally identified in red blood cells and the kidney. AQP1 is also expressed by the choroid plexus and various other tissues. The glycosylated forms of AQP1 range between 40-60kD in mass.

Species Cross Reactivity Reacts with Rat, Mouse. Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Preservative Stabilizers: 0.09% Sodium Azide, 0.1% Bovine Serum Albumin.

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Storage

18 months from date of dispatch.

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing as this may denature the antibody.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	.			1:1000 - 1:20000
Western Blotting	.			1:1000 - 1:5000
Immunohistology - frozen	.			1:500 - 1:1000
Immunohistology – paraffin(*)	.			1:500 - 1:1000
Immunohistology - resin			.	
Immunoprecipitation	.			1:1000 - 1:10000
Flow Cytometry			.	
Immunodiffusion			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

(*)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH6.0 is recommended for this purpose. Histology Positive Control Tissue: Kidney

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	.			1:5000-1:10000

Reference

Bodis, B. et al. (2001) Active water selective channels in the stomach: investigation of aquaporins after ethanol and capsaicin treatment in rats. J. Physiol. 95: 271 - 275.

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