

Product datasheet for **SM1809P**

Aquaporin 1 (AQP1) (249-269) Mouse Monoclonal Antibody [Clone ID: 1/A5F6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1/A5F6
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA: 1/1000-1/20000. Western Blot: 1/1000-1/5000. Immunoprecipitation: 1/1000-1/10000. Immunohistochemistry on Frozen and Paraffin Embedded Sections: 1/500-1/1000. This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose. <i>Recommended Positive Control Tissue:</i> Kidney.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to amino acids 249-269 of Rat Aquaporin 1. Spleen cells from immunised Balb/c mice were fused with the cells of the Sp2/0 Ag14 mouse myeloma cell line.
Specificity:	This antibody recognises an epitope within the cytoplasmic domain of the water-specific channel Aquaporin 1.
Formulation:	State: Purified State: Liquid purified IgG fraction containing 0.09% Sodium Azide as preservative and 0.1% BSA as stabilizer.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



[View online »](#)

Gene Name: aquaporin 1 (Colton blood group)

Database Link: [Entrez Gene 358 Human P29972](#)

Background: Aquaporin 1 is a 28kD integral membrane protein which was originally identified in red blood cells and renal proximal tubules. AQP1 is also expressed by the choroid plexus and various other tissues. The glycosylated forms of AQP1 range between 40-60kD in mass. It forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

Synonyms: AQP-1, CHIP28, Aquaporin-CHIP