RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human Vasopressin Antibody

Catalog No:	Isotype:	Species:	Accession No:
130-10097	Mouse IgG	Human	P01185

Description

Arginine vasopressin (**AVP**), also known as **vasopressin**, **argipressin** or **antidiuretic hormone** (**ADH**), is a neurohypophysial hormone found in most mammals. Vasopressin is responsible for increasing water absorption in the collecting ducts of the kidney nephron. Vasopressin increases water permeability of kidney collecting duct by inducing translocation of aquaporin-CD water channels in the kidney nephron collecting duct plasma membrane. Vasopressin is a peptide hormone that controls the reabsorption of molecules in the tubules of the kidneys by affecting the tissue's permeability. It also increases peripheral vascular resistance, which in turn increases arterial blood pressure. It plays a key role in homeostasis, by the regulation of water, glucose, and salts in the blood.

Applications

Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 80,000
Western Blotting			*	
Enzyme Immunoassay (EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

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

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Preparation

Immunogen was recombinant protein derived from human vasopressin. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein A/G affinity chromatography.

Specificity

The antibody specifically binds to human vasopressin. Cross reactivity with mouse and rat were not tested.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can also be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 30 days at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Reference

1. Nielsen S, et al. (1995). "Vasopressin increases water permeability of kidney collecting duct by inducing translocation of aquaporin-CD water channels to plasma membrane". *Proc. Natl. Acad. Sci. U.S.A.* **92** (4): 1013–7.
2. Caldwell HK, Young WS III (2006). "Oxytocin and Vasopressin: Genetics and Behavioral Implications". In Lajtha A, Lim R. *Handbook of Neurochemistry and Molecular Neurobiology: Neuroactive Proteins and Peptides* (3rd ed.). Berlin: Springer. pp. 573–607.