

# Aldosterone Monoclonal Antibody (BGN/10/42110)

Catalog NumberMA1-82846

Product data sheet

Details		Species Reactivity	
Size	200 µg	Species reactivity	Chemical
Host/Isotope	Mouse / IgG1	<div>Tested ApplicationsDilution * ELISA (ELISA)Assay-dependent</div>	
Class	Monoclonal		
Type	Antibody	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Clone	BGN/10/42110		
Immunogen	Aldosterone (3-CMO) conjugated to BSA.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS, pH 7.2		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

This antibody shows minimal cross-reactivity with androstenedione, corticosterone, DHEA, and desoxycortisol. Mouse anti aldosterone antibody, clone 1-10.1 recognizes aldosterone, a mineralocorticocoid hormone essential for sodium and potassium homeostasis. Mouse anti aldosterone antibody, clone 1-10.1 exhibits minimal reactivity with androstenedione, corticosterone, DHEA and desoxycortisol.

**Background/Target Information**

Aldosterone is a hormone produced by the adrenal glands that helps regulate blood pressure through increasing both the release of potassium and the uptake of water and sodium by the kidneys. It is essential for sodium conservation in the kidney, salivary glands, sweat glands and colon. It plays a central role in the regulation of the plasma sodium (Na+), the extracellular potassium (K+) and arterial blood pressure. It does so mainly by acting on the mineralocorticoid receptors in the distal tubules and collecting ducts of the nephron. It influences the reabsorption of sodium and excretion of potassium (from and into the tubular fluids, respectively) of the kidney, thereby indirectly influencing water retention or loss, blood pressure and blood volume. When dysregulated, aldosterone is pathogenic and contributes to the development and progression of cardiovascular and renal disease. Aldosterone has exactly the opposite function of the atrial natriuretic hormone secreted by the heart.

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