

AbX™

# Prostaglandin E<sub>2</sub> Monoclonal Antibody

Catalog Number A011-50UG



ARBOR  
ASSAYS

## FEATURES

- Mouse Monoclonal to Prostaglandin E<sub>2</sub> (PGE<sub>2</sub>)
- Extend primary antibody supplies
- Clone 5A2

## INTRODUCTION

Eicosanoid signal transduction pathways are highly conserved and are involved in a number of physiological processes. Prostaglandins are synthesized from arachidonic acid by cyclooxygenase (COX)-1 or -2, which convert the acid into PGH<sub>2</sub>. This is further processed by cytosolic or microsomal prostaglandin synthases to become PGE<sub>2</sub> or one of several other prostanoids. Prostacyclin is the major cyclooxygenase product in blood vessel walls and it is present in inflammatory fluids in similar concentrations to PGE<sub>2</sub>. Prostacyclin is a potent vasodilator and is more potent than PGE<sub>2</sub> in producing hyperalgesia. PGE<sub>2</sub> is produced by a wide variety of tissues and in several pathological conditions, including inflammation, arthritis, fever, tissue injury, endometriosis, and a variety of cancers.

Other biological actions of PGE<sub>2</sub> include vasodilation, modulation of sleep/wake cycles, and facilitation of human immunodeficiency virus replication. It elevates cAMP levels, stimulates bone resorption, and has thermoregulatory effects. It has been shown to be a regulator of sodium excretion and renal hemodynamics.

<b>FORM:</b>	100 mM Sodium Phosphate, 150 mM Sodium Chloride, 0.09% Na Azide, pH 7.2
<b>CONCENTRATION:</b>	100 µg/mL
<b>SUBTYPE:</b>	IgG <sub>1</sub>
<b>STORAGE:</b>	4°C
<b>IMMUNOGEN:</b>	PGE <sub>2</sub> covalently coupled to carrier protein
<b>SPECIFICITY:</b>	PGE <sub>1</sub> , 25.9%; PGF <sub>2a</sub> , 0.3%; TXB <sub>2</sub> , 0.03%; 6-keto-PGF <sub>1a</sub> , 15-keto-PGE <sub>1</sub> , 16,16-dimethyl-PGE <sub>2</sub> , and Arachidonic Acid all <0.02%
<b>USES:</b>	For Immunoassay Use
<b>COUNTRY OF ORIGIN:</b>	USA

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21Apr15