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Lieferung & Zahlungsart

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- Mindermengenzuschlag
- Trockeneiszuschlag
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Prostaglandin-E2 receptor EP2. Mouse Monoclonal Antibody

Prostaglandin E2 Receptor Subtype EP2; Provided under license from Allergan, Inc. United States Patent No. 5,716,835

BACKGROUND

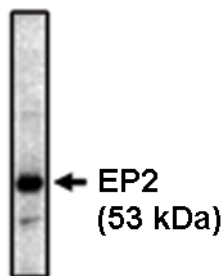
Prostaglandins (PG's) are produced by the metabolism of arachidonic acid. PGE-2 is one of the five physiologically significant prostanoids known. It's wide spectrum of physiologic and pharmacologic effects in various tissues are mediated through binding to the PGE-2 receptors (EP1, EP2, EP3 & EP4). These include effects on the immune, endocrine, cardiovascular, renal and reproductive systems as well as smooth muscle. It is also one of the most abundant of the prostanoid family in the brain where it plays an important role in many neural functions, particularly in newborn babies, and as a mediator of inflammation.

PGE-2 signals through a family of G-protein coupled receptors known as EP receptors. There are 4 subtypes of EP receptors, known as EP1, EP2, EP3 and EP4. EP2 receptors are 358 amino acid proteins with a short third intracellular loop. EP2 receptors stimulate adenylyl cyclase by their coupling to Gs and do not undergo PGE-2-induced internalization. The EP2 receptors is involved with the contraction and relaxation of smooth muscle tissue. These receptors are mainly localized in lung and placental tissues and in smooth muscle.

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human EP2 receptor protein and mouse myeloma cells.

Western blot analysis using EP2 antibody on bovine brain lysate at 1 μ g/ml.



ORDERING INFORMATION

CATALOG NUMBER

X1491M

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Mouse Clone 3E6

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Rat, Bovine, Human

ACCESSION NUMBER

Rat Q62928

Human P43116

POSITIVE CONTROL/TISSUE EXPRESSION

Porcine brain lysate

COMMENTS

This antibody can be used for Western blot analysis (1-5 µg/ml). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Bhattacharya, M., et al. Nuclear prostaglandin receptors. *Gene Ther. Mol. Biol.* 1999, 4, 323-338
2. Desai, S., et al. Comparison of agonist-induced internalization of the human EP2 and EP4 prostaglandin receptors: role of the carboxyl terminus in EP4 receptor sequestration. *Mol. Pharmacol.* 2000, 58, 1279-1286
3. Morath, R., et al. Immunolocalization of the four prostaglandin E2 receptor proteins EP1, EP2, EP3 and EP4 in human kidney. *J. Am. Soc. Nephrol.* 1999, 10, 1851-1860
4. Fedyk, E.R., et al. Prostaglandin E2 receptors of the EP2 and EP4 subtypes regulate activation and differentiation of mouse B lymphocytes to IgE-secreting cells. *Proc. Natl. Acad. Sci. USA* 1996, 93, 10978-10983
5. Najarian, T., et al. Preservation of neural function in the perinate by high PGE(2) levels acting via EP(2) receptors. *J. Appl. Physiol.* 2000, 89, 777-784.

PRODUCT SPECIFIC REFERENCES

1. Nahid Waleh, et al., 'Prostaglandin E2-Mediated Relaxation of the Ductus Arteriosus: Effects of Gestational Age on Protein-Coupled Receptor Expression, Signaling & Vasomotor Control' *Circulation* 2004, 110, , 2326-2332