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Zuschläge

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Prostaglandin-E2 receptor EP3. Mouse Monoclonal Antibody

Prostaglandin E2 Receptor Subtype EP3

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. EP3 receptors are 365-425 amino acid proteins. There are currently 4 known isoforms of EP3 receptors named EP3A, 3B, 3C and 3D. Each of has different physiological function, but differ only in the carboxyl terminus and how they couple to their respective G-proteins. EP3 receptors are involved in water absorption, gastric acid secretion, uterine contraction, neurotransmitter release and the hydrolysis of fat cells (lipolysis). EP3 receptors also act as a mediator of neural inflammation. These receptors are mainly localized in the brain, kidney, stomach, uterus and ovaries.

Ordering Information

Catalog Number
X1492M

Size
100 µg

Form
Unconjugated

Host/Clone
Mouse Clone 5F5

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

Concentration
See vial for concentration

Isotype
IgG2a

Applications
Western Blot

Species Reactivity
Rat, Bovine, Human

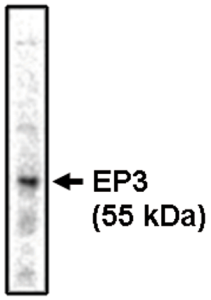
Accession Number

Rat	P34980
Bovine	P34979
Human	P43115

Immunogen

Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human EP3 receptor protein and mouse myeloma cells.

Western blot analysis using EP3 antibody on bovine brain lysate at 1 µg/ml.



For research use only. Not for use in human diagnostics or therapeutics.

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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 -20ºC. Aliquot to avoid freeze/thaw cycles

Stability

Products are stable for one year from purchase when stored properly

References

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3. Zeng, L., et al. Regulation of expression of matrix metalloproteinase-9 in early human T cells of the HSB.2 cultured line by the EP3 subtype of prostaglandin E2 receptor. J. Biol. Chem. 1996, 271, 27744-27760

4. Beiche, F., et al. Localization of cyclooxygenase-2 and prostaglandin E2 receptor EP3 in the rat lumbar spinal cord. J. Neuroimmunol. 1998, 89, 26-34

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6. 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

7. Nakamura, K., et al. Immunohistochemical localization of prostaglandin EP3 receptor in the rat hypothalamus. Neurosci. Lett. 1999, 260, 117-120

8. Nakamura, K., et al. Prostaglandin EP3 receptor protein in serotonin and catecholamine cell groups: a double immunoflourescence study in the rat brain. Neuroscience 2001, 103, 763-775

Product Specific References

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