

Datasheet for ABIN306865
anti-PTGER3 antibody[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	PTGER3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTGER3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human EP3 receptor protein and mouse myeloma cells.
Clone:	5F5
Isotype:	IgG2a
Cross-Reactivity:	Cow, Human, Rat
Characteristics:	Prostaglandin E2 Receptor Subtype EP3, Prostaglandins (PG's) are produced by the metabolism of arachidonic acid. PGE-2 is one of the five physiologically significant prostanoids known. Its 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

Product Details

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.

Purification: Protein A/G Chromatography

Target Details

Target: PTGER3

Alternative Name: Prostaglandin-E2 receptor EP3 ([PTGER3 Products](#))

UniProt: [P34980](#)

Application Details

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

Restrictions: For Research Use only

Handling

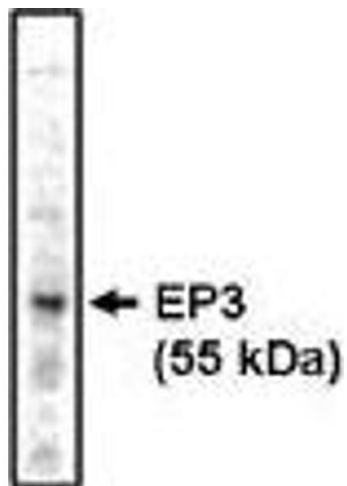
Buffer: Provided as solution in phosphate buffered saline with 0.08 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

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



Western Blotting

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