

Product datasheet for **AM05325PU-N**

EP2 (PTGER2) Mouse Monoclonal Antibody [Clone ID: 3E6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3E6
Applications:	WB
Recommended Dilution:	Western Blot: 1-5 µg/ml. <i>Positive Control:</i> Porcine brain lysate.
Reactivity:	Bovine, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human EP2 receptor protein and mouse myeloma cells.
Specificity:	This antibody detects Prostaglandin E2 Receptor EP2 subtype.
Formulation:	PBS containing 0.08% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	prostaglandin E receptor 2
Database Link:	Entrez Gene 5732 Human P43116



[View online »](#)

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.

Synonyms:

Prostaglandin E receptor 2, Prostanoid EP2 receptor, Prostaglandin E2 receptor EP2, PGE receptor EP2, PGE2 receptor EP2 subtype, EP2

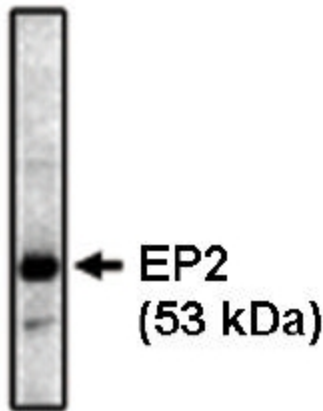
Product images:

Figure 1. Western blot analysis using EP2 antibody on porcine brain lysate at 1 ug/ml.