



Rabbit Anti-Human PTGER2 (pT344/pS345) Polyclonal antibody (DPAB-CTM25205)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Threonine344/Serine345 (T344/S345) is major phosphorylation site of the EP2 Prostanoid Receptor (EP2). The pT344/pS345-EP2 antibody detects phosphorylation in response to agonists. T344/S345 phosphorylation is likely to be involved in efficient ligand sequestration by EP2.
Specificity	Specific for Human PTGER2 (pT344/pS345).
Target	Human PTGER2 (pT344/pS345)
Immunogen	A synthetic phosphopeptide derived from human EP2 around the phosphorylation site of Thr344/Ser345.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen affinity chromatography
Conjugate	Unconjugated
Applications	WB 1:1000
Format	Liquid
Size	100 µl
Buffer	Dulbecco's PBS, pH 7.4, with 150 mM NaCl, 0.02% sodium azide
Preservative	0.02% sodium azide

Storage

Short-term 4°C, long-term -20°C.

BACKGROUND

Introduction

Prostanoid receptors are activated by the endogenous ligands prostaglandins PGD₂, PGE₁, PGE₂, PGF₂α, PGH₂, prostacyclin (PGI₂) and thromboxane A₂. Cyclo-oxygenase (COX) converts arachidonic acid to prostaglandin H₂ (PGH₂), from which further prostanoids, PGD₂, PGE₂, PGF₂α, PGI₂ (prostacyclin) and thromboxane A₂ (TXA₂) are enzymatically derived. Based on the agonist potencies of the latter prostanoids (and the limited use of receptor antagonists), five prostanoid receptors were recognized and correspondingly named DP, EP, FP, IP and TP receptors. Additionally, EP receptors have been subdivided into four groups, termed EP1, EP2, EP3 and EP4. cDNA cloning identified a family of eight G-protein coupled receptors (GPCRs) that correspond to these pharmacologically-defined receptors. cDNA cloning also revealed the presence of an additional GPCR called CRTH2 that mediates some PGD₂ actions. Therefore, the DP receptor now has two subtypes, DP1 and DP2 (CRTH2).

Keywords

PGE Receptor EP2 subtype; Prostaglandin E Receptor 2; EP2 Prostanoid Receptor; PTGER2

GENE INFORMATION

UniProt ID

P43116