

## **EP1 Polyclonal Antibody**

Catalog No: YT5447

**Reactivity:** Human; Rat; Mouse;

**Applications:** WB;ELISA

Target: EP1

**Fields:** >>Calcium signaling pathway;>>Neuroactive ligand-receptor

interaction;>>Human cytomegalovirus infection;>>Pathways in cancer

Gene Name: PTGER1

**Protein Name:** Prostaglandin E2 receptor EP1 subtype

P34995

P35375

Human Gene Id: 5731

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

**Immunogen:** The antiserum was produced against synthesized peptide derived from the

Internal region of human PTGER1. AA range:191-240

**Specificity:** EP1 Polyclonal Antibody detects endogenous levels of EP1 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

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Observed Band: 44kD

Calcium; Neuroactive ligand-receptor interaction; **Cell Pathway:** 

**Background:** The protein encoded by this gene is a member of the G protein-coupled receptor

> family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). Through a phosphatidylinositol-calcium second messenger system, G-Q

proteins mediate this receptor's activity. Knockout studies in mice

suggested a role of this receptor in mediating algesia and in regulation of blood

pressure. Studies in mice also suggested that this gene may mediate adrenocorticotropic hormone response to bacterial endotoxin. [provided by

RefSeg, Jul 2008],

**Function:** function: Receptor for prostaglandin E2 (PGE2). The activity of this receptor is

> mediated by G(q) proteins which activate a phosphatidylinositol-calcium second messenger system. May play a role as an important modulator of renal function.

Implicated the smooth muscle contractile response to PGE2 in various tissues..PTM:Phosphorylated ..similarity:Belongs to the G-protein coupled

receptor 1 family., tissue specificity: Abundant in kidney. Lower level expression in lung, skeletal muscle and spleen, lowest expression in testis and not detected in

liver brain and heart..

Subcellular

Cell membrane; Multi-pass membrane protein. Location:

Abundant in kidney. Lower level expression in lung, skeletal muscle and spleen, **Expression:** 

lowest expression in testis and not detected in liver brain and heart.

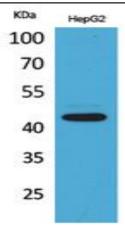
Sort: 5580

No4:

Rabbit Host:

**Modifications:** Unmodified

## **Products Images**



Western Blot analysis of HepG2 cells using EP1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000