

EP3 Polyclonal Antibody

Catalog No :	YT1569
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	EP3
Fields :	>>Calcium signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Regulation of lipolysis in adipocytes;>>Human cytomegalovirus infection;>>Pathways in cancer
Gene Name :	PTGER3
Protein Name :	Prostaglandin E2 receptor EP3 subtype
Human Gene Id :	5733
Human Swiss Prot No :	P43115
Mouse Swiss Prot No :	P30557
Immunogen :	The antiserum was produced against synthesized peptide derived from human PE2R3. AA range:1-50
Specificity :	EP3 Polyclonal Antibody detects endogenous levels of EP3 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. IHC 1:100 - 1:300. IF 1:200 - 1:1000. 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)

Observed Band : 40kD

Cell Pathway : Calcium;Neuroactive ligand-receptor interaction;

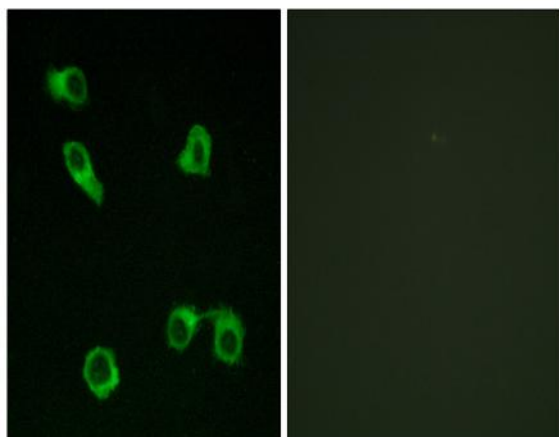
Background : The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor may have many biological functions, which involve digestion, nervous system, kidney reabsorption, and uterine contraction activities. Studies of the mouse counterpart suggest that this receptor may also mediate adrenocorticotrophic hormone response as well as fever generation in response to exogenous and endogenous stimuli. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009],

Function : alternative products:Additional isoforms seem to exist,function:Receptor for prostaglandin E2 (PGE2); the EP3 receptor may be involved in inhibition of gastric acid secretion, modulation of neurotransmitter release in central and peripheral neurons, inhibition of sodium and water reabsorption in kidney tubulus and contraction in uterine smooth muscle. The activity of this receptor can couple to both the inhibition of adenylate cyclase mediated by G-I proteins, and to an elevation of intracellular calcium. The various isoforms have identical ligand binding properties but can interact with different second messenger systems.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed in small intestine, heart, pancreas, gastric fundic mucosa, mammary artery and pulmonary vessels.,

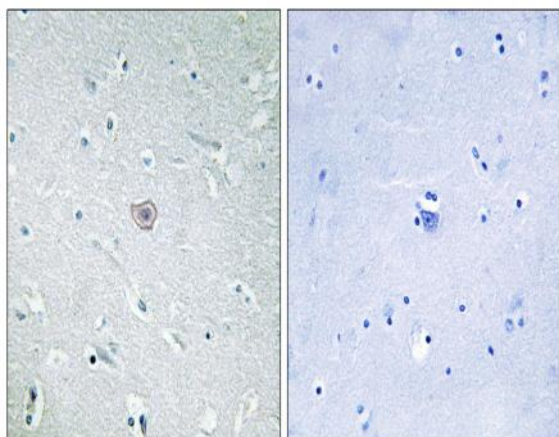
Subcellular Location : Cell membrane ; Multi-pass membrane protein .

Expression : Detected in kidney (PubMed:8117308, PubMed:8135729). Expressed in small intestine, heart, pancreas, gastric fundic mucosa, mammary artery and pulmonary vessels.

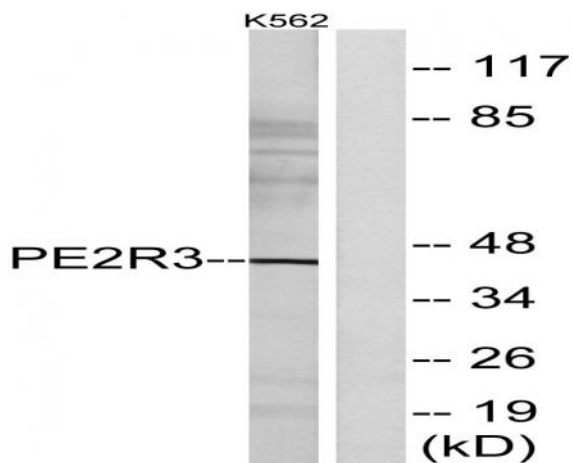
Products Images



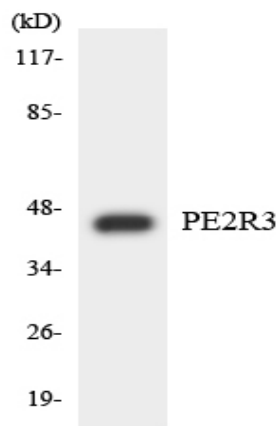
Immunofluorescence analysis of COS7 cells, using PE2R3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using PE2R3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using PE2R3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from Jurkat cells using PE2R3 antibody.