

**Product Name: EP3 Rabbit Polyclonal Antibody**  
**Catalog #: APRab10496**



## Summary

<b>Production Name</b>	EP3 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IF,IHC,WB,
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	PTGER3
<b>Alternative Names</b>	PTGER3; Prostaglandin E2 receptor EP3 subtype; PGE receptor EP3 subtype; PGE2 receptor EP3 subtype; PGE2-R; Prostanoid EP3 receptor
<b>Gene ID</b>	5733.0
<b>SwissProt ID</b>	P43115.The antiserum was produced against synthesized peptide derived from human PE2R3. AA range:1-50

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000 IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
<b>Molecular Weight</b>	40kD

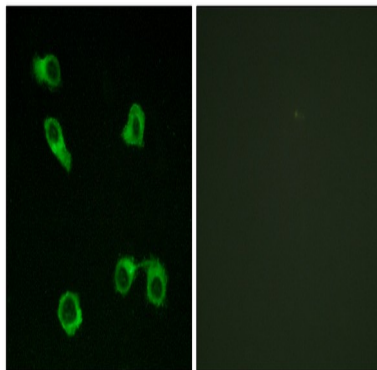
## Background

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],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.,

## Research Area

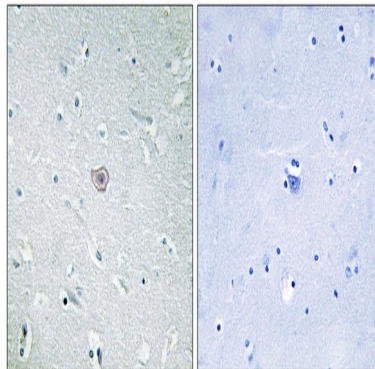
Calcium;Neuroactive ligand-receptor interaction;

## Image Data

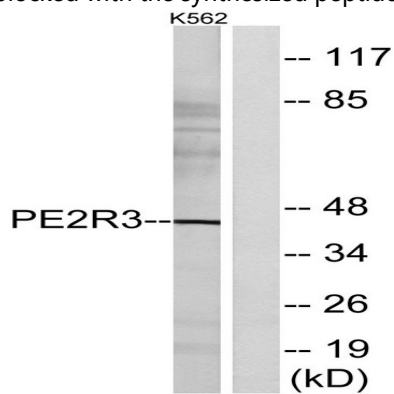


Immunofluorescence analysis of COS7 cells, using PE2R3 Antibody. The picture on the right is blocked with the synthesized peptide.

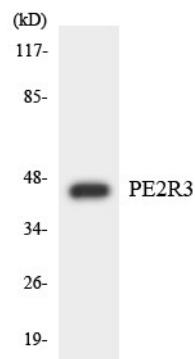
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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using PE2R3 Antibody. The picture on the right is blocked with the synthesized peptide.



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.

## Note

For research use only.