

Rabbit PTGER4 / EP4 Polyclonal Antibody | anti-PTGER4 antibody

Rabbit Polyclonal to Human PTGER4 / EP4

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52331	Rabbit	Human, Monkey	Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

PTGER4 / EP4; Polyclonal Antibody; Rabbit Polyclonal to Human PTGER4 / EP4; Anti-PTGER4 / EP4 Antibody (Extracellular Domain) IHC-plus; PTGER4; EP4; EP4 prostaglandin receptor; EP4R; PGE receptor EP4 subtype; Prostanoid EP4 receptor; Prostaglandin E receptor 4; PGE receptor; EP4 subtype; PGE2 receptor EP4 subtype; Human PTGER4; anti-PTGER4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Specificity	Human PTGER4 / EP4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	0.9 mg/ml (varies by lot)
Sequence Length	488
Applicable Applications for anti-PTGER4 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Target Species	Human
Epitope	Extracellular Domain
Immunogen Type	Synthetic peptide
Immunogen	PTGER4 / EP4 antibody was raised against synthetic 17 amino acid peptide from 3rd extracellular domain of human PTGER4 / EP4. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Gibbon, Monkey, Marmoset (100%); Guinea pig (88%); Elephant, Bat, Rabbit, Horse (82%).
Immunogen Species	PTGER4 / EP4 antibody was raised against human
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:

Tissue Preparation:

Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:

Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C.

Deparaffinization:

Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:

Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT

Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT

Wash slides in 1 change of 80% alcohol - 3 minutes @ RT

Rinse slides in gentle running distilled water - 5 minutes @ RT

Antigen retrieval:

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

Immunostaining:

(Do not allow tissues to dry at any time during the staining procedure)

Apply a universal protein block - 20 minutes @ RT

Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT

Rinse slides in 1 X TBST - 1 minute @ RT

Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT

Rinse slides in 1X TBST -1 minute @ RT

Apply alkaline phosphatase streptavidin - 30 minutes @ RT

Rinse slides in 1X TBST -1 minute @ RT

Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT

Wash slides in distilled water - 1 minute @ RT

Dehydrate:

(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB))

Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT

Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT

Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT

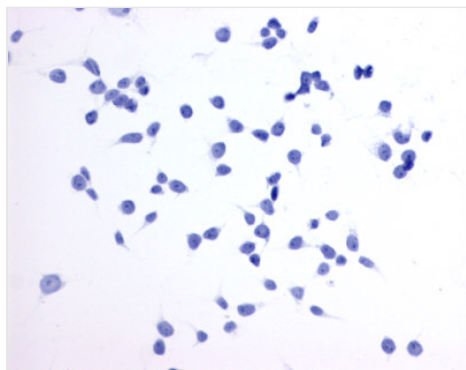
Wash slides in 3 changes of xylene - 1 minute each @ RT

Apply coverslip

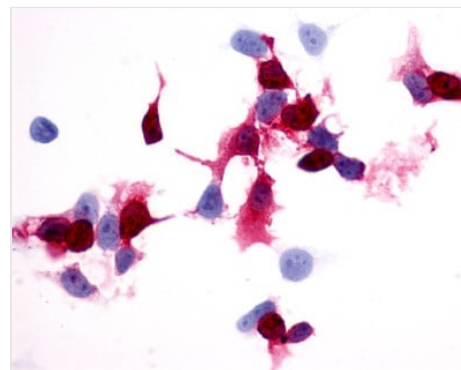
Preparation and Storage

Aliquot and store undiluted at -20°C or below for up to a 1 year. Can be stored undiluted at 4°C for up to 1 month.
Avoid freeze-thaw cycles

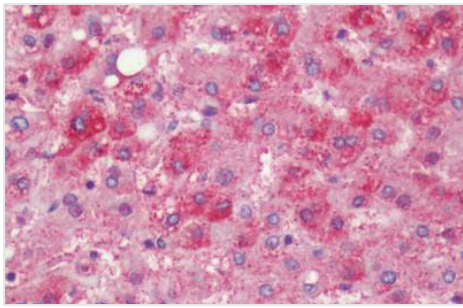
IMAGES



Transfection Control



Transfection



IHC (Immunohistochemistry)
Human, Liver: Formalin-Fixed Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-PTGER4 antibody	Prostaglandin E receptor EP4 is a Prostanoid Receptor with a relaxing effect on smooth muscle. It may play an important role in regulating renal hemodynamics, intestinal epithelial transport, adrenal aldosterone secretion, and uterine function.
Product Categories/Family for anti-PTGER4 antibody	Family: GPCR; Subfamily: Prostanoid

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506259
NCBI GeneID	5734
NCBI Accession #	NP_000949.1
NCBI GenBank Nucleotide #	NM_000958.2
UniProt Accession #	P35408; Q3MJ87
NCBI Official Full Name	prostaglandin E2 receptor EP4 subtype
NCBI Official Synonym Full Names	prostaglandin E receptor 4 (subtype EP4)
NCBI Official Symbol	PTGER4
NCBI Official Synonym Symbols	EP4; EP4R
NCBI Protein Information	prostaglandin E2 receptor EP4 subtype; prostanoid EP4 receptor; PGE receptor EP4 subtype; PGE receptor, EP4 subtype; PGE2 receptor EP4 subtype
UniProt Protein Name	Prostaglandin E2 receptor EP4 subtype
UniProt Gene Name	PTGER4
UniProt Synonym Gene Names	PTGER2; PGE receptor EP4 subtype; PGE2 receptor EP4 subtype
UniProt Entry Name	PE2R4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.