

Product Datasheet

PTGER4/EP4 Antibody - BSA Free NLS3890

Unit Size: 0.05 ml

Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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NLS3890

PTGER4/EP4 Antibody - BSA Free

Product Information

Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description

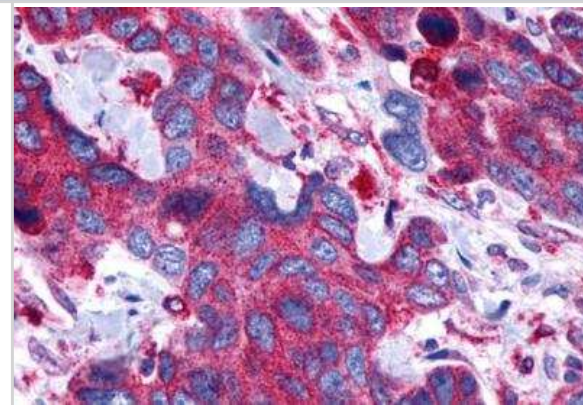
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	5734
Gene Symbol	PTGER4
Species	Human, Bovine, Primate, Monkey
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (100%), Mouse (87%), Rat (87%), Hamster (87%), Bat (87%), Opossum (87%), Zebrafish (87%), Turkey (80%), Chicken (80%), Xenopus (80%).
Specificity/Sensitivity	Human PTGER4/EP4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 15 amino acid peptide from C-terminus of human PTGER4/EP4.

Product Application Details

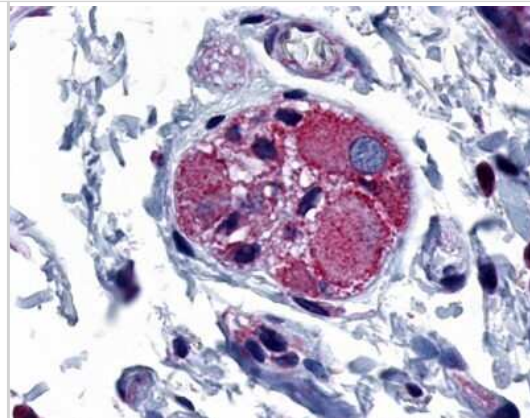
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 2 - 3 ug/ml

Images

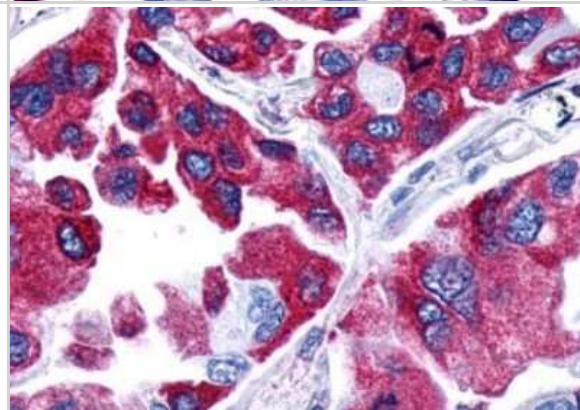
Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Colon, Carcinoma



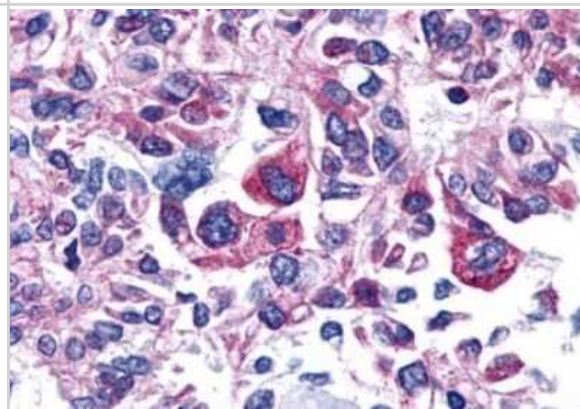
Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Analysis of anti-PTGER4 / EP4 antibody with human colon, ganglion at 2 ug/ml.



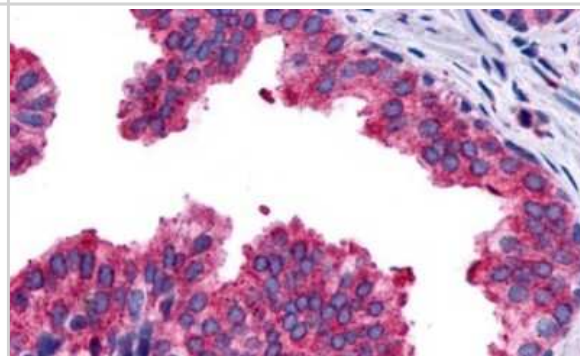
Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Human Lung, Adenocarcinoma tissue after heat-induced antigen retrieval.



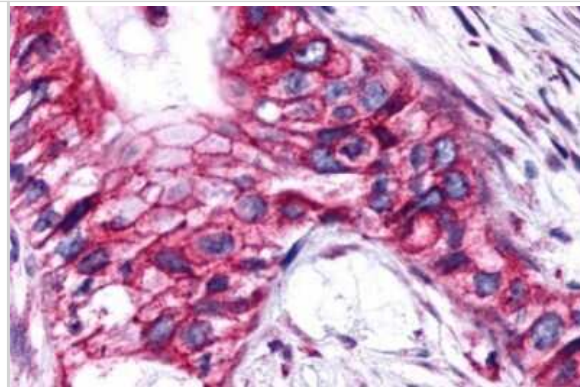
Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Human Prostate, Carcinoma tissue after heat-induced antigen retrieval.



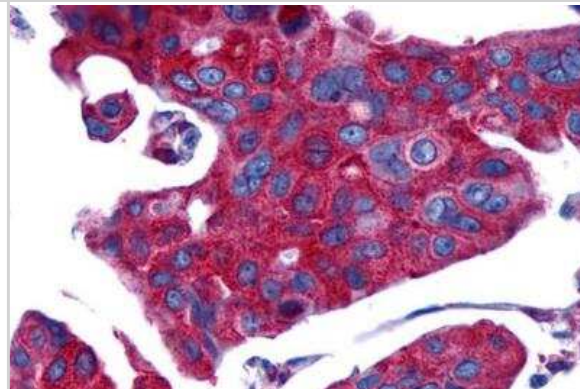
Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Human prostate, benign prostatic hyperplasia tissue after heat-induced antigen retrieval.



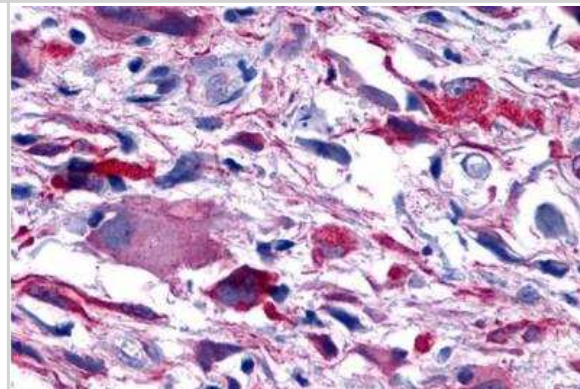
Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Human Pancreas, Carcinoma tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Breast, Carcinoma



Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3890] - Brain, Glioblastoma



Publications

Ukon y, Nishida M, yamamori N et al. Prostaglandin EP4 Selective Agonist AKDS001 Enhances New Bone Formation by Minimodeling in a Rat Heterotopic Xenograft Model of Human Bone Frontiers in Bioengineering and Biotechnology 2022-03-17 [PMID: 35372320] (IHC-P, Human)

Oll M, Baumann C, Behbahani TE et al. Identification of prostaglandin receptors in human ureters. BMC Urol 2012-12-10 [PMID: 23227994] (Human)

Procedures

Immunohistochemistry Protocol for Prostaglandin E Receptor EP4 Antibody (NLS3890)

Immunohistochemistry Protocol for Prostaglandin E Receptor EP4 Antibody (NLS3890):

Immunohistochemistry

1. Prepare tissue with formalin fixation and by embedding it in paraffin wax.
2. Make 4-um sections and place on pre-cleaned and charged microscope slides.
3. Heat in a tissue-drying oven for 45 minutes at 60 degrees Celcius.
4. Deparaffinize the tissues by wash drying the slides in 3 changes of xylene approximately 5 minutes each @ RT.
5. Rehydrate the tissues by washing the slides in 3 changes of 100% alcohol approximately 3 minutes each @ RT.
6. Wash the slides in 2 changes of 95% alcohol approximately 3 minutes each @ RT.
7. Wash the slides in 1 change of 80% alcohol approximately 3 minutes @ RT.
8. Rinse the slides in gentle running distilled water approximately 5 minutes @ RT.
9. Perform antigen retrieval by steaming the slides in 0.01M sodium citrate buffer (pH 6.0) @ 99-100 degrees Celcius for 20 minutes.
10. Remove the slides from the heat and let stand in buffer @ RT for 20 minutes.
11. Rinse the slides in 1X TBS-T for 1 minute @ RT.

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

12. Begin the immunostaining by applying a universal protein block approximately 20 minutes @ RT.
13. Drain protein block from the slides and apply the diluted primary antibody approximately 45 minutes @ RT.
14. Rinse the slide in 1X TBS-T approximately 1 minute @ RT.
15. Apply a biotinylated anti-rabbit IgG (H+L) secondary approximately 30 minutes @ RT.
16. Rinse the slide in 1X TBS-T approximately 1 minute at RT.
17. Apply an alkaline phosphatase streptavidin approximately 30 minutes at RT.
18. Rinse the slide in 1X TBS-T approximately 1 minute at RT.
19. Apply an alkaline phosphatase chromagen substrate approximately 30 minutes at RT.
20. Rinse the slide in distilled water approximately 1 minute @ RT.

****This method should only be used if the chromagen substrate is alcohol insoluble (ie: Vector Red, DAB)****

21. Dehydrate the tissue by washing the slides in 2 changes of 80% alcohol approximately 1 minute each @ RT.
22. Wash the slides in 2 changes of 95% alcohol approximately 1 minute each @ RT.
23. Wash the slides in 3 changes of 100% alcohol approximately 1 minute each @ RT.
24. Wash the slides in 3 changes of xylene approximately 1 minute each @ RT.
25. Apply cover slip.





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Products Related to NLS3890

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00005734-Q01-10ug	Recombinant Human PTGER4/EP4 GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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