

Product Datasheet

PTGER4/EP4 Antibody - BSA Free NLS3898

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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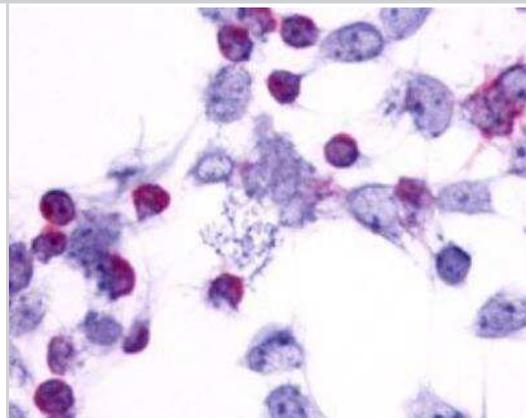


NLS3898**PTGER4/EP4 Antibody - BSA Free**

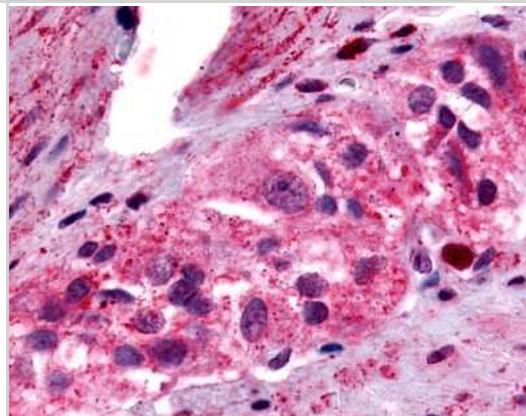
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Rabbit PTGER4/EP4 Antibody - BSA Free (NLS3898) is a polyclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-PTGER4/EP4 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5734
Gene Symbol	PTGER4
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (93%), Marmoset (93%), Gibbon (86%), Monkey (86%). Mouse reactivity reported in (PMID: 21600299).
Specificity/Sensitivity	Human PTGER4/EP4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 14 amino acid peptide from N-terminal extracellular domain of human PTGER4/EP4.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot, Flow Cytometry, Immunohistochemistry 10-20 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 2.5 ug/ml
Application Notes	Use in FLOW reported in scientific literature (PMID: 25218986). Use in WB reported in scientific literature (PMID: 21600299). .

Images

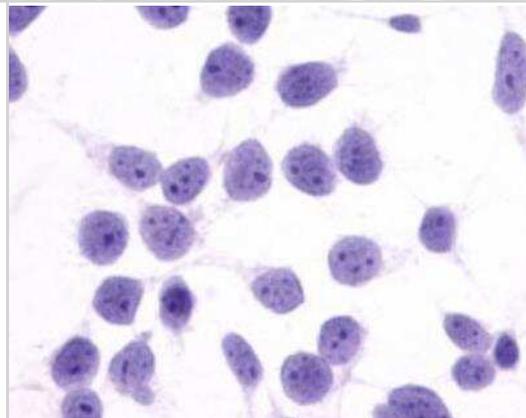
Immunocytochemistry/Immunofluorescence: PTGER4/EP4 Antibody [NLS3898] - Analysis of anti-PTGER4 / EP4 antibody with transfected cells expressing Prostaglandin E Receptor EP4 at 8 ug/ml.



Immunohistochemistry-Paraffin: PTGER4/EP4 Antibody [NLS3898] - Analysis of anti-PTGER4 / EP4 antibody with human colon, ganglion 8 ug/ml.



Immunocytochemistry/Immunofluorescence: PTGER4/EP4 Antibody [NLS3898] - Analysis of anti-PTGER4 / EP4 antibody with transfection control.



Publications

Patterson A, Plett P, Sampson C et al. Prostaglandin E2 Enhances Aged Hematopoietic Stem Cell Function Stem Cell Rev Rep 2021-05-11 [PMID: 33974233]

Gobec M, Prijatelj M, Delic J et al. Chemo-sensitizing effects of EP4 receptor-induced inactivation of nuclear factor-kB. Eur J Pharmacol. 2014-09-09 [PMID: 25218986] (FLOW, ICC/IF, Human)

Details:

Prostaglandin E Receptor EP4 antibody used for ICC-IF and FLOW applications performed on RAMOS, MHH-PRE B, NALM-6, KOPN-8, MOLT-4, JURKAT, THP1, U937 and Human lymphoblastoid cell lines (LCLs). In ICC-IF, the cells were fixed in 4%PFA for 15 minutes RT, primary used at 10ug/ml concentration, goat anti-rabbit IgG conjugated with AlexaFluor 488 dye used at 0.4ug/ml (Immunostaining images shown in Figure 1C). For FLOW, the cells were fixed in 4% PFA, permeabilized with 0.5% Triton X solution, Incubated with primary 5ug/ml concentration, AlexaFluor 488 conjugated secondary followed by washing and detection on FACScalibur (Figure 1D).

Prijatelj M, Celhar T, Mlinaric-Rascan I. Prostaglandin EP4 receptor enhances BCR-induced apoptosis of immature B cells. Prostaglandins Other Lipid Mediat. 2011-08-01 [PMID: 21600299] (WB, Mouse)

Details:

Prostaglandin E Receptor EP4. WB: Mouse B lymphoma (WEHI 231) cell line, Fig 4.



Procedures

Immunohistochemistry Protocol for Prostaglandin E Receptor EP4 Antibody (NLS3898)

Immunohistochemistry Protocol for Prostaglandin E Receptor EP4 Antibody (NLS3898):

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 NLS3898

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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.

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