Product Datasheet

PTGFR Antibody - BSA Free NLS1049

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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NLS1049

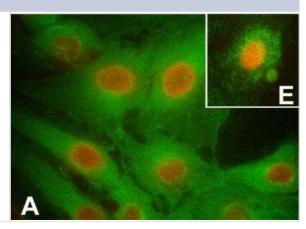
PTGFR Antibody - BSA Free

Product Information

1 Todact 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	5737
Gene Symbol	PTGFR
Species	Human, Porcine, Equine, Primate, Monkey
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Mouse (88%), Rat (88%), Canine (88%), Sheep (81%), Bovine (81%), Hamster (81%), Rabbit (81%).
Specificity/Sensitivity	Human PTGFR. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 16 amino acid peptide from 2nd extracellular domain of human PTGFR.
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunocytochemistry
Recommended Dilutions	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 4-8 ug/ml, Immunocytochemistry 1:10 - 1:500

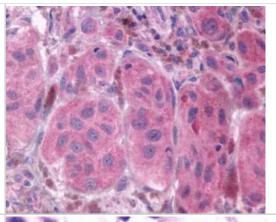
Images

Immunocytochemistry/Immunofluorescence: PTGFR Antibody [NLS1049] - Representative FPr immunofluorescent staining on porcine corpus luteum-microvascular endothelial cells (pCL-MVECs) isolated from the early luteal phase (EL-p) (A), the mid-luteal phase (ML-p). Representative immunostaining of the FPr on non-fixed EL-p pCL-MVECs is shown (E). Image collected and cropped by CiteAb from the following publication (rbej.biomedcentral.com/articles/10.1186/1477-7827-5-31), licensed under a CC-BY license.

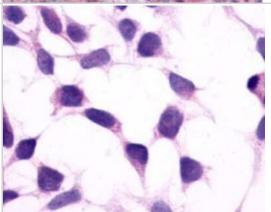




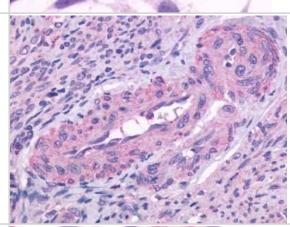
Immunohistochemistry-Paraffin: PTGFR Antibody [NLS1049] - Analysis of anti-FP / PTGFR antibody with human skin, melanoma.



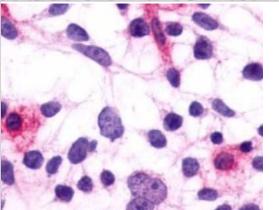
Immunohistochemistry-Paraffin: PTGFR Antibody [NLS1049] - Analysis of anti-FP / PTGFR antibody with transfection control.



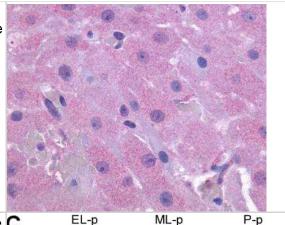
Immunohistochemistry-Paraffin: PTGFR Antibody [NLS1049] - Analysis of anti-FP / PTGFR antibody with human ovary.



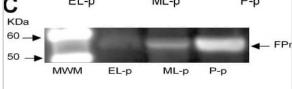
Immunohistochemistry-Paraffin: PTGFR Antibody [NLS1049] - Analysis of anti-FP / PTGFR antibody with transfected cells expressing Prostaglandin F2 alpha Receptor at 4 ug/ ml.



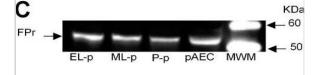
PTGFR Antibody [NLS1049] - Anti-PTGFR antibody IHC of human ovary. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



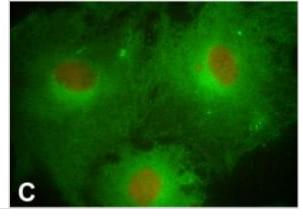
Presence of FPr in porcine corpora lutea (pCLs) at the early-luteal phase (EL-p), the mid-luteal phase (ML-p) and during pregnancy (P-p). A) Relative FPr mRNA expression. The results are presented as Delta Ct (HPRT Ct - FPr Ct). B) FPr protein content. The results are presented as AU (arbitrary units). Data represent mean \pm SD. Different letters indicate statistically significant differences (P < 0.05). C) Representative Western blotting of FPr.



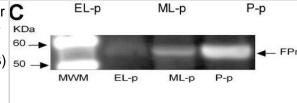
Presence of FPr in porcine corpora lutea-derived microvascular endothelial cells (pCL-MVECs) and porcine Aortic Endothelial Cells (pAECs). A) Relative FPr mRNA expression. The results are presented as Delta Ct (HPRT Ct - FPr Ct). B) FPr protein content. The results are presented as AU (arbitrary units). Data represent mean ± SD. Different letters indicate statistically significant differences (P < 0.05). C) Representative Western blotting of FPr.



Representative FPr immunofluorescent staining on porcine corpus luteum-microvascular endothelial cells (pCL-MVECs) isolated from the early luteal phase (EL-p) (A), the mid-luteal phase (ML-p) (B) and during pregnancy (P-p) (C) (×400). D) porcine Aortic Endothelial Cell (pAEC) culture (x400). Representative immunostaining of the FPr on non-fixed EL-p pCL-MVECs is shown (E).



Western Blot: PTGFR Antibody - BSA Free [NLS1049] - Presence of FPr in porcine corpora lutea (pCLs) at the early-luteal phase (EL-p), the midluteal phase (ML-p) & during pregnancy (P-p). A) Relative FPr mRNA expression. The results are presented as Delta Ct (HPRT Ct - FPr Ct). B) FPr protein content. The results are presented as AU (arbitrary units). Data represent mean ± SD. Different letters indicate statistically significant differences (P < 0.05). C) Representative Western blotting of FPr. Image collected & cropped by CiteAb from the following publication (https://rbej.biomedcentral.com/articles/10.1186/1477-7827-5-31), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



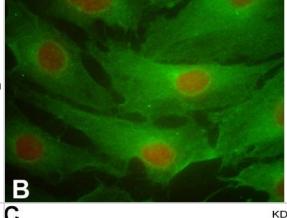
Western Blot: PTGFR Antibody - BSA Free [NLS1049] - Representative FPr immunofluorescent staining on porcine corpus luteum-microvascular endothelial cells (pCL-MVECs) isolated from the early luteal phase (EL-p) (A), the mid-luteal phase (ML-p) (B) & during pregnancy (P-p) (C) (×400). D) porcine Aortic Endothelial Cell (pAEC) culture (x400). Representative immunostaining of the FPr on non-fixed EL-p pCL-MVECs is shown (E). Image collected & cropped by CiteAb from the following publication

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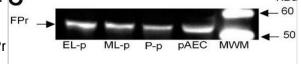
C

Immunocytochemistry/ Immunofluorescence: PTGFR Antibody - BSA Free [NLS1049] - Representative FPr immunofluorescent staining on porcine corpus luteum-microvascular endothelial cells (pCL-MVECs) isolated from the early luteal phase (EL-p) (A), the mid-luteal phase (ML-p) (B) & during pregnancy (P-p) (C) (×400). D) porcine Aortic Endothelial Cell (pAEC) culture (x400). Representative immunostaining of the FPr on non-fixed EL-p pCL-MVECs is shown (E). Image collected & cropped by CiteAb from the following publication (https://rbej.biomedcentral.com/articles/10.1186/1477-7827-5-31),

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Western Blot: PTGFR Antibody - BSA Free [NLS1049] - Presence of FPr in porcine corpora lutea-derived microvascular endothelial cells (pCL-MVECs) & porcine Aortic Endothelial Cells (pAECs). A) Relative FPr mRNA expression. The results are presented as Delta Ct (HPRT Ct - FPr Ct). B) FPr protein content. The results are presented as AU (arbitrary units). Data represent mean ± SD. Different letters indicate statistically significant differences (P < 0.05). C) Representative Western blotting of FPr. Image collected & cropped by CiteAb from the following publication (https://rbej.biomedcentral.com/articles/10.1186/1477-7827-5-31), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Bidne KL, Romoser MR, Ross JW et al. Heat stress during the luteal phase decreases luteal size but does not impact circulating progesterone in gilts J. Anim. Sci. 2019-08-02 [PMID: 31372640]

Zannoni A, Bernardini C, Rada T et al. Prostaglandin F2-alpha receptor (FPr) expression on porcine corpus luteum microvascular endothelial cells (pCL-MVECs). Reprod Biol Endocrinol 2007-01-01 [PMID: 17659079]





Procedures

Immunohistochemistry Protocol for Prostaglandin F2 alpha Receptor Antibody (NLS1049)

Immunohistochemistry Protocol for Prostaglandin F2 alpha Receptor Antibody (NLS1049): 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 steptavidin 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.
- Wash the slides in 3 changes of xyleneapproximately 1 minute each @ RT.
- 25. Apply cover slip.





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Products Related to NLS1049

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

NB7160 Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

NBP2-24891 Rabbit IgG Isotype Control 210-TA-005 TNF-alpha [Unconjugated]

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