# **Product Datasheet**

# LHR Antibody - BSA Free NLS1436

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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#### **NLS1436**

LHR Antibody - BSA Free

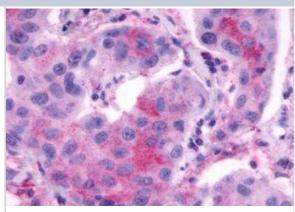
Line Anabody Borerico	
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Product Description	
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	3973
Gene Symbol	LHCGR
Species	Human, Bovine, Canine
Reactivity Notes	Bovine reactivity reported in scientific literature (Martin I et al). Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (95%), Bat (89%), Rabbit (89%), Equine (89%). Use in Canine reported in scientific publication (PMID: 32584181).
Specificity/Sensitivity	Human LHR. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 19 amino acid peptide from C-terminus of human LHR.
Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin

Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml

# **Recommended Dilutions**

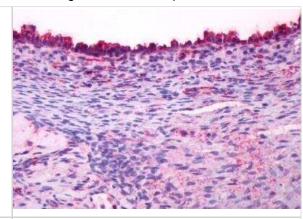
**Images** 

Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Anti-LHCGR / LHR / LH Receptor antibody IHC of human Breast, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

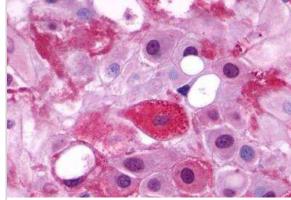




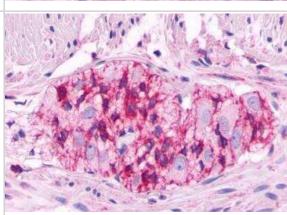
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Ovary, Graafian Follicle



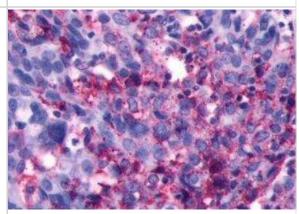
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Placenta



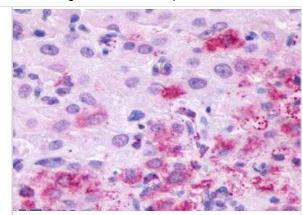
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Colon Myenteric Plexus



Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Anti-LHCGR / LHR / LH Receptor antibody IHC of human Ovary, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Anti-hCG receptor antibody IHC of human ovary, corpus luteum. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



#### **Publications**

Junhua Zhou, Elena A B Azizan, Claudia P Cabrera, Fabio L Fernandes-Rosa, Sheerazed Boulkroun, Giulia Argentesi, Emily Cottrell, Laurence Amar, Xilin Wu, Sam O'Toole, Emily Goodchild, Alison Marker, Russell Senanayake, Sumedha Garg, Tobias Åkerström, Samuel Backman, Suzanne Jordan, Satyamaanasa Polubothu, Daniel M Berney, Anna Gluck, Kate E Lines, Rajesh V Thakker, Antoinette Tuthill, Caroline Joyce, Juan Pablo Kaski, Fiona E Karet Frankl, Lou A Metherell, Ada E D Teo, Mark Gurnell, Laila Parvanta, William M Drake, Eva Wozniak, David Klinzing, Jyn Ling Kuan, Zenia Tiang, Celso E Gomez Sanchez, Per Hellman, Roger S Y Foo, Charles A Mein, Veronica A Kinsler, Peyman Björklund, Helen L Storr, Maria-Christina Zennaro, Morris J Brown Somatic mutations of GNA11 and GNAQ in CTNNB1-mutant aldosterone-producing adenomas presenting in puberty, pregnancy or menopause. Nature genetics 2021-10-14 [PMID: 34385710]

Guler S, Asmaz E, Saricetin A et al. Effects of Calcium, Available Phosphorus and Microbial Phytase on Ovarian FSHR and LHR Expression in Laying Hens Journal of the Hellenic Veterinary Medical Society 2023-10-18

Zwida KH, Kutzler MA. Canine splenic hemangiosarcoma cells express and activate luteinizing hormone receptors in vitro Am J Vet Res 2022-11-03 [PMID: 36327166] (ICC/IF, Canine)

#### Details:

Citation using the FITC version of this antibody.

Kiefel CA, Kutzler MA Assessment of luteinizing hormone receptor expression in structural support tissues of canine hip and femorotibial joints Am. J. Vet. Res. 2020-07-01 [PMID: 32584181] (IF/IHC, Canine)

Scarlet D, Aurich C, Ille N et al. Anti-Muellerian Hormone, inhibin A, gonadotropins and gonadotropin receptors in bull calves after partial scrotal resection, orchidectomy and Burdizzo castration. Theriogenology 1905-07-08 [PMID: 27693012] (IF/IHC)

Noci I, Sorbi F, Mannini L et al. LH/hCG-Receptor Expression May Have a Negative Prognostic Value in Low-Risk Endometrial Cancer. Front Oncol 2016-09-09 [PMID: 27610354]

Yung Y, Aviel-Ronen S, Maman E et al. Localization of Luteinizing Hormone Receptor Protein in the Human Ovary. Mol. Hum. Reprod. 2014-05-29 [PMID: 24874553] (IHC-P, Human)

Martin I, Rodrigues MMP, Fujihara CJ et al. Localization patterns of steroid and luteinizing hormone receptors in the corpus luteum of Nelore (Bos taurus indicus) cows throughout the estrous cycle. Livestock Science. 2013-08-01 (IF/IHC, Bovine)



#### **Procedures**

#### Immunohistochemistry Protocol for Luteinizing Hormone Receptor Antibody (NLS1436)

Immunohistochemistry Protocol for Luteinizing Hormone Receptor Antibody (NLS1436): 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 @ 60 degrees Celcius.
- 4. Deparaffinize the tissues by wash drying the slides in 3 changes of xylene for 5 minutes each @ RT.
- 5. Rehydrate the tissues by washing the slides in 3 changes of 100% alcohol for 3 minutes each @ RT.
- 6. Wash the slides in 2 changes of 95% alcohol for 3 minutes each @ RT.
- 7. Wash the slides in 1 change of 80% alcohol for 3 minutes @ RT.
- 8. Rinse the slides in gentle running distilled water for 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 for 20 minutes @ RT.
- 13. Drain protein block from the slides and apply the diluted primary antibody for 45 minutes @ RT.
- 14. Rinse the slide in 1X TBS-T for 1 minute @ RT.
- 15. Apply a biotinylated anti-rabbit IgG (H+L) secondary for 30 minutes @ RT.
- 16. Rinse the slide in 1X TBS-T for 1 minute @ RT.
- 17. Apply an alkaline phosphatase steptavidin for 30 minutes @ RT.
- 18. Rinse the slide in 1X TBS-T for 1 minute @ RT.
- 19. Apply an alkaline phosphatase chromagen substrate for 30 minutes @ RT.
- 20. Rinse the slide in distilled water for 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 for 1 minute each @ RT.
- 22. Wash the slides in 2 changes of 95% alcohol for 1 minute each @ RT.
- 23. Wash the slides in 3 changes of 100% alcohol for 1 minute each @ RT.
- 24. Wash the slides in 3 changes of xylene for 1 minute each @ RT.
- 25. Apply cover slip.





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## **Products Related to NLS1436**

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

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

NBP2-24891 Rabbit IgG Isotype Control 291-G1-200 IGF-I/IGF-1 [Unconjugated]

#### 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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