

# Product Datasheet

## LHR Antibody - BSA Free NLS1436

Unit Size: 0.05 ml

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 5**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NLS1436](http://www.novusbio.com/NLS1436)

Updated 4/3/2022 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NLS1436](http://www.novusbio.com/reviews/destination/NLS1436)



**NLS1436**

LHR Antibody - BSA Free

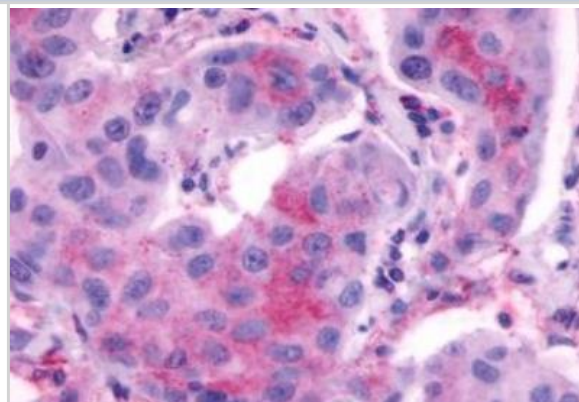
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
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.

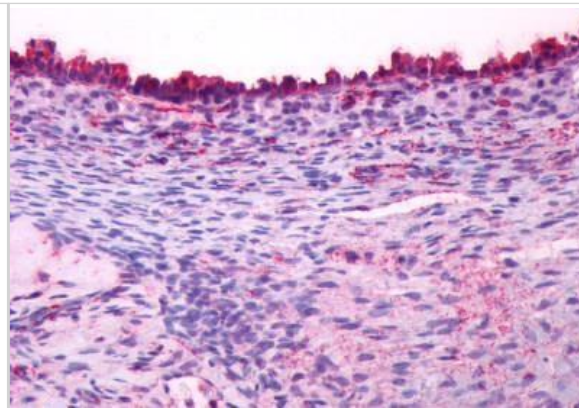
Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml

**Images**

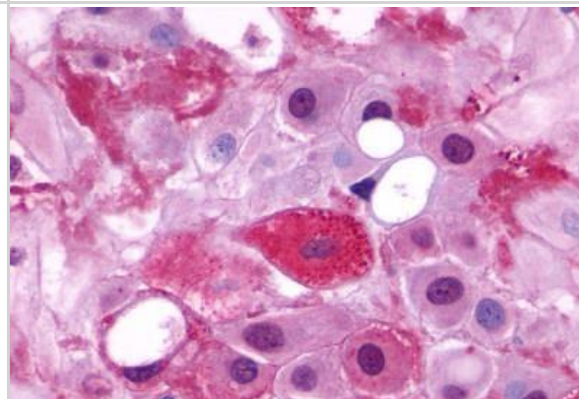
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Anti-LHCGR / LHR / LH Receptor antibody IHC of human Breast, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



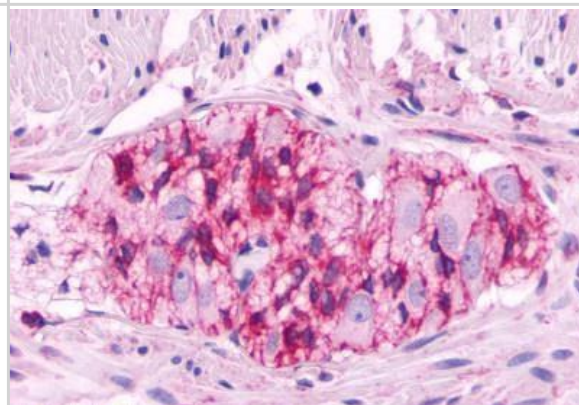
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Ovary, Graafian Follicle



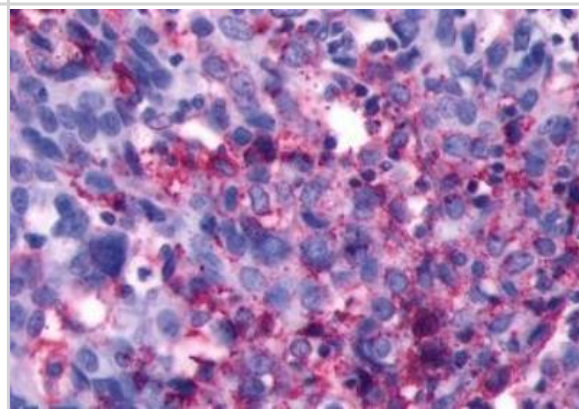
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Placenta



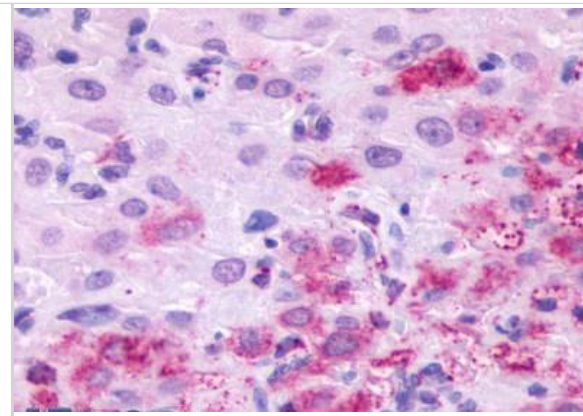
Immunohistochemistry-Paraffin: LHR Antibody [NLS1436] - Colon Myenteric Plexus



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

Kiefel CA, Kutzler MA Assessment of luteinizing hormone receptor expression in structural support tissues of canine hip and femorotibial joints Am. J. Vet. Res. Jul 1 2020 12:00AM [PMID: 32584181] (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 Jul 8 1905 12:00AM [PMID: 27693012] (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 Sep 9 2016 12:00AM [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 May 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 Aug (IHC, Bovine)

## Procedures

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

Immunohistochemistry Protocol for Luteinizing Hormone Receptor Antibody (NLS1436):

[https://www.novusbio.com/products/lhr-antibody\\_nls1436](https://www.novusbio.com/products/lhr-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 streptavidin 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.



### Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA

Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
novus@novusbio.com

### Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada

Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### General Contact Information

www.novusbio.com  
Technical Support: technical@novusbio.com  
Orders: orders@novusbio.com  
General: novus@novusbio.com

### Products Related to NLS1436

---

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NLS1436](http://www.novusbio.com/reviews/submit/NLS1436)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

