

# Product Datasheet

## ERR alpha/NR3B1 Antibody

### NLS5402

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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**NLS5402**

ERR alpha/NR3B1 Antibody

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	2101
Gene Symbol	ESRRA
Species	Human, Mouse, Rat, Porcine, Bat, Bovine, Canine, Equine, Hamster, Monkey
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Marmoset (100%), Elephant (100%), Panda (100%), Gibbon (93%). Rat reactivity reported in scientific literature (PMID: 23720198).
Specificity/Sensitivity	Human ESRRA. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 15 amino acid peptide from internal region of human ESRRA.

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Chromatin Immunoprecipitation 1:10 - 1:500, Immunohistochemistry 8-24 ug/ml, Immunohistochemistry-Paraffin 8-24 ug/ml
Application Notes	Use in Western blot reported in scientific literature (PMID: 23720198).

**Publications**

Bernatchez G, Giroux V, Lassalle T et al. The ERRalpha metabolic nuclear receptor controls growth of colon cancer cells. *Carcinogenesis* 2013-05-29 [PMID: 23720198] (WB, Rat, Human)

Boudjadi S, Bernatchez G, Beaulieu JF, Carrier JC. Control of the Human Osteopontin Promoter by ERRalpha in Colorectal Cancer. *Am J Pathol* 2013-05-13 [PMID: 23680656] (IHC-P, WB, Human)

Fritah A, Steel JH, Parker N, Nikolopoulou E, Christian M, Carling D, Parker MG. Absence of RIP140 Reveals a Pathway Regulating glut4-Dependent Glucose Uptake in Oxidative Skeletal Muscle through UCP1-Mediated Activation of AMPK. *PLoS One*;7(2):e32520. 2012-01-01 [PMID: 22389706]



## Procedures

### Immunohistochemistry Protocol for Estrogen Related Receptor alpha Antibody (NLS5402)

#### 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.



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### **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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