

# Product Datasheet

## ER beta/NR3A2 Antibody (6A12) - Azide and BSA Free NB200-303

Unit Size: 100 ul

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

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### Publications: 16

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**NB200-303**

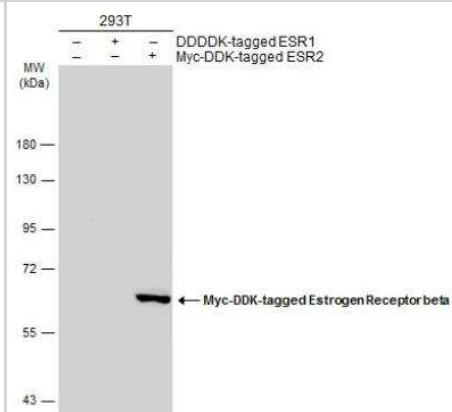
ER beta/NR3A2 Antibody (6A12) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	6A12
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	55 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse ER beta/NR3A2 Antibody (6A12) - Azide and BSA Free (NB200-303) is a monoclonal antibody validated for use in IHC, WB, ICC/IF, IP and ChIP. Anti-ER beta/NR3A2 Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	2100
<b>Gene Symbol</b>	ESR2
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	This is specific for Estrogen receptor-Beta.
<b>Immunogen</b>	Amino acids 1-153 of human ER beta/NR3A2 expressed in E. coli.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1-5 ug/ml, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	ChIP usage reported in scientific literature.



## Images

Western Blot: ER beta/NR3A2 Antibody (6A12) [NB200-303] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Estrogen Receptor beta antibody [6A12]. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



## Publications

- Andersson S, Sundberg M et al. Insufficient antibody validation challenges oestrogen receptor beta research. *Nat Commun* 2017-06-15 [PMID: 28643774] (IF/IHC, Human)
- Asavasupreechar T, Chan MSM, Saito R et al. Sex steroid metabolism and actions in non-small cell lung carcinoma J. *Steroid Biochem. Mol. Biol.* 2019-08-03 [PMID: 31386890] (IF/IHC, Human)
- Vivar OI, Zhao X, Saunier EF et al. Estrogen receptor beta binds to and regulates three distinct classes of target genes. *J Biol Chem* 2010-07-01 [PMID: 20404318] (Chemotaxis, Human)
- Vivar OI, Saunier EF, Leitman DC et al. Selective activation of estrogen receptor-beta target genes by 3,3'-diindolylmethane. *Endocrinology* 2010-04-01 [PMID: 20160136] (Chemotaxis, Human)
- Ivanova MM, Mazhawidza W, Dougherty SM et al. Activity and intracellular location of estrogen receptors alpha and beta in human bronchial epithelial cells. *Mol Cell Endocrinol* 2009-06-01 [PMID: 19433257] (Chemotaxis, Human)
- Klinge CM, Wickramasinghe NS, Ivanova MM et al. Resveratrol stimulates nitric oxide production by increasing estrogen receptor alpha-*Src*-caveolin-1 interaction and phosphorylation in human umbilical vein endothelial cells. *FASEB J* 2008-07-01 [PMID: 18296501] (Chemotaxis, Human)
- Cvoro A, Paruthiyil S, Jones JO et al. Selective activation of estrogen receptor-beta transcriptional pathways by an herbal extract. *Endocrinology* 2007-02-01 [PMID: 17095596] (Chemotaxis, Human)
- Cvoro A, Tzagarakis-Foster C, Tatomer D et al. Distinct roles of unliganded and liganded estrogen receptors in transcriptional repression. *Mol Cell* 2006-02-01 [PMID: 16483936] (Chemotaxis, Human)
- Tee Primate, Rogatsky I, Tzagarakis-Foster C et al. Estradiol and selective estrogen receptor modulators differentially regulate target genes with estrogen receptors alpha and beta. *Mol Biol Cell* 2004-03-01 [PMID: 14699072] (Chemotaxis, Human)
- Cooke, FJ et al. Epifenetic control of the oestrogen receptor genes in breast cancer. *Brit J.*
- Hopp TA, Weiss HL, Parra IS et al. Low levels of estrogen receptor beta protein predict resistance to tamoxifen therapy in breast cancer. *Clin Cancer Res* 2004-11-01 [PMID: 15569979]
- Fuqua, SAW et al. Estrogen receptor beta protein in human breast cancer: correlation with clinical tumor parameters. *Cancer Res* 63:2434-2439. 2003-01-01 [PMID: 14695225]
- More publications at <http://www.novusbio.com/NB200-303>



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### **Products Related to NB200-303**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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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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