

Product Datasheet

ER beta/NR3A2 Antibody NB120-3577

Unit Size: 50ug

Store at -20C. Avoid freeze-thaw cycles.

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NB120-3577

ER beta/NR3A2 Antibody

| Product Information | |
|-------------------------|--|
| Unit Size | 50ug |
| Concentration | 1 mg/ml |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Immunogen affinity purified |
| Buffer | PBS with 1 mg/ml BSA |
| Target Molecular Weight | 59 kDa |

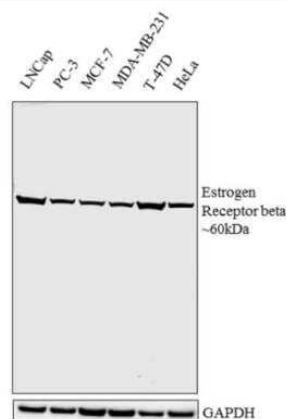
| Product Description | |
|---------------------|---|
| Description | Novus Biologicals Rabbit ER beta/NR3A2 Antibody (NB120-3577) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ER beta/NR3A2 Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 2100 |
| Gene Symbol | ESR2 |
| Species | Human, Mouse, Rat, Porcine, Bovine, Hamster, Primate, Sheep |
| Reactivity Notes | Porcine reactivity reported in scientific literature (PMID: 16153501). Bovine reactivity reported in scientific literature (PMID: 21397601). Hamster reactivity reported in scientific literature (PMID: 12943744). |
| Immunogen | Synthetic peptide corresponding to residues A(55) E P Q K S P W C E A R S L E H(70) of rat ER beta. |

| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen |
| Recommended Dilutions | Western Blot 1 - 2 ug/ml, Immunohistochemistry 1 - 2 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1 - 2 ug/ml, Immunohistochemistry-Frozen 1 - 2 ug/ml, Gel Super Shift Assays 1 - 5 ul |
| Application Notes | WB: Detects an approx. 55 - 62 kDa protein representing ER beta from rat brain homogenate. ChIP usage was reported in the scientific literature (PMID: 19897598). |

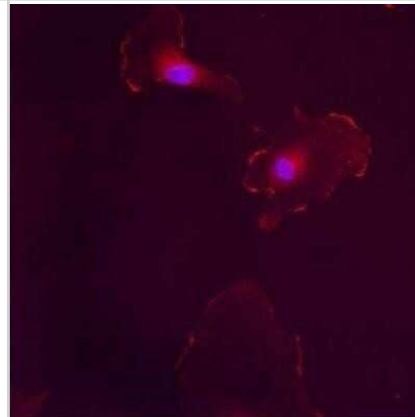


Images

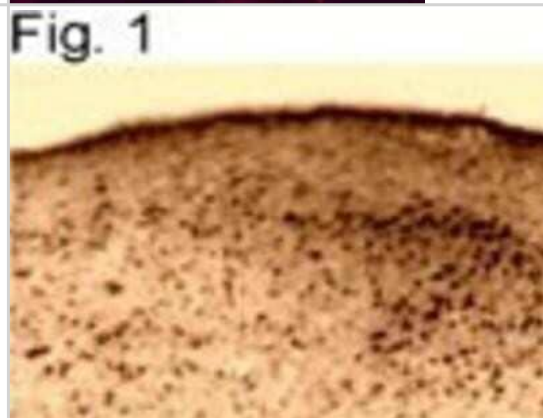
Western Blot: ER beta/NR3A2 Antibody [NB120-3577] - Western blot analysis was performed on nuclear enriched extracts (30 ug lysate) of LNCap (Lane 1), PC-3 (Lane 2), MCF-7 (Lane 3), MDA-MB-231 (Lane 4), T-47D (Lane 5) and HeLa (Lane 6). The blots were probed with an anti-rabbit polyclonal ER beta/NR3A2 antibody [NB120-3577] at 1 ug/mL and detected by chemiluminescence using an HRP conjugated goat anti-rabbit IgG (H+L) secondary antibody at 0.4 ug/mL. A 60 kDa band corresponding to Estrogen Receptor beta was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using a 10% Bis-Tris gel. Resolved proteins were then transferred onto a nitrocellulose membrane. The membrane was probed with the relevant primary and secondary antibody following blocking with 5% skim milk. Chemiluminescent detection was performed.



Immunocytochemistry/Immunofluorescence: ER beta/NR3A2 Antibody [NB120-3577] - Primate amygdala.



Immunohistochemistry-Paraffin: ER beta/NR3A2 Antibody [NB120-3577] - Figure 1 illustrates immunolocalization of ER beta in primate amygdala using NB120-3577.



Publications

Alhamyani A, Mahmood ASMH, Alshamrani A et al. Central Type II Glucocorticoid Receptor Regulation of Ventromedial Hypothalamic Nucleus Glycogen Metabolic Enzyme and Glucoregulatory Neurotransmitter Marker Protein Expression in the Male Rat J Endocrinol Diabetes 2021-01-13 [PMID: 34258390] (Immunohistochemistry-Paraffin, Rat)

Ibrahim MMH, Bheemanapally K, Sylvester PW, Briski KP. Norepinephrine Regulation of Adrenergic Receptor Expression, 5' AMP-Activated Protein Kinase Activity, and Glycogen Metabolism and Mass in Male Versus Female Hypothalamic Primary Astrocyte Cultures ASN Neuro 2020-11-12 [PMID: 33176438] (Immunohistochemistry-Paraffin, Rat)

de Souza BR, de Almeida Chuffa LG, Simao VA, Camargo ICC. Histopathological changes in androgenized ovaries are recovered by melatonin treatment. Int J Exp Pathol 2018-08-01 [PMID: 30256483]

Abdullah, A, Talwar, P Et al. IRE1 alpha is critical for Kaempferol-induced neuroblastoma differentiation. FEBS J 2019 -04-01 [PMID: 30719816] (IF/IHC, Mouse)

SimAo VA, Lupi JUnior LA, Adan Araujo Leite G et al. Nandrolone decanoate causes uterine injury by changing hormone levels and sex steroid receptors in a dose- and time-dependent manner Reproductive toxicology (Elmsford, N.Y.) 2021-06-01 [PMID: 33984419]

Ibrahim MMH, Bheemanapally K, Sylvester PW, Briski KP Sex differences in glucoprivic regulation of glycogen metabolism in hypothalamic primary astrocyte cultures: Role of estrogen receptor signaling Mol. Cell. Endocrinol. 2020-08-24 [PMID: 32853745] (WB, Rat)

Wang YX, Xia ZH, Jiang X et al. Genistein inhibits amyloid peptide 25-35-induced neuronal death by modulating estrogen receptors, choline acetyltransferase and glutamate receptors Arch. Biochem. Biophys. 2020-08-25 [PMID: 32857999] (ICC/IF, Rat)

Briski KP, Ali MH, Napit PR Sex-Specific Acclimation of A2 Noradrenergic Neuron Dopamine-Beta-Hydroxylase and Estrogen Receptor Variant Protein and 5'-AMP-Activated Protein Kinase Reactivity to Recurring Hypoglycemia in Rat J. Chem. Neuroanat. 2020-06-26 [PMID: 32599255] (WB, Rat)

Details:
Sprague-Dawley rats

Alshamrani AA, Bheemanapally K, Ibrahim MMH, Briski KP Impact of caudal hindbrain glycogen metabolism on A2 noradrenergic neuron AMPK activation and ventromedial hypothalamic nucleus norepinephrine activity and glucoregulatory neurotransmitter marker protein expression Neuropeptides 2020-05-16 [PMID: 32451071] (WB, Rat)

Ibrahim MMH, Bheemanapally K, Sylvester PW, Briski KP Sex-specific estrogen regulation of hypothalamic astrocyte estrogen receptor expression and glycogen metabolism in rats Mol. Cell. Endocrinol. 2020-01-11 [PMID: 31931041] (WB, Rat)

Uddin MM, Mahmood ASMH, Ibrahim MMH, Briski KP Sex-Dimorphic Estrogen Receptor Regulation of Ventromedial Hypothalamic Nucleus Glucoregulatory Neuron Adrenergic Receptor Expression in Hypoglycemic Male and Female Rats Brain Res. 2019-06-29 [PMID: 31265816] (WB, Rat)

Hasan Mahmood ASM, Mandal SK, Bheemanapally K et al. Norepinephrine control of ventromedial hypothalamic nucleus glucoregulatory neurotransmitter expression in the female rat: Role of monocarboxylate transporter function. Mol. Cell. Neurosci. 2019-01-17 [PMID: 30660767] (WB, Rat)

More publications at <http://www.novusbio.com/NB120-3577>



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Products Related to NB120-3577

| | |
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| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

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