

Product Datasheet

ER beta/NR3A2 Antibody NB300-747

Unit Size: 50ug

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

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NB300-747

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

Product Description

Host	Rabbit
Gene ID	2100
Gene Symbol	ESR2
Species	Human, Rat
Specificity/Sensitivity	Detects estrogen receptor (ER) beta from human and rat tissues. Detects a band at ~ 55 kDa.
Immunogen	Synthetic peptide corresponding to residues C(459) S P A E D S K S K E G S Q N P Q S Q(477) of human ER beta.

Product Application Details

Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunofluorescence
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:10 - 1:500, Immunohistochemistry-Paraffin 2 - 5 ug/ml, Immunohistochemistry-Frozen 2 - 5 ug/ml, Immunofluorescence 1:100
Application Notes	WB: Detects an approx. 55 kDa protein representing ER beta from rat brain homogenate. IHC: Staining of ER beta in rat prostate with NB300-747 results in nuclear staining, whereas nuclear staining may not be observed in human tissue.

Images

Western Blot: ER beta/NR3A2 Antibody [NB300-747] - Recombinant full-length human ER alpha & ER beta proteins, & 10ul of PageRuler Prestained Protein Ladder loaded onto a Novex 4-20% Tris-Glycine polyacrylamide gel. Transferred to PVDF membrane using G2 Blotter, & blocked with 5% milk in TBST for 1 hr at RT. ER beta at ~54kD (left) using ER beta pAb at 1:1000 in blocking buffer overnight at 4C on rocking platform, then HRP- goat anti-rabbit IgG secondary antibody at 1:40000. Chemiluminescent detection performed using SuperSignal West Pico. The blot stripped with Restore Plus Western blot stripping buffer for 15 min at room temp, re-blocked with 5% milk in TBST for 1 hr at room temp, & re-probed with an ER alpha pAb at a dilution of 1:2000 overnight at 4C, followed by an HRP-goat anti-rabbit IgG secondary antibody at a dilution of 1:40,000. Chemiluminescent detection was performed using SuperSignal West Pico. The presence of faint ER-beta bands on the blot probed.

Immunohistochemistry-Frozen: ER beta/NR3A2 Antibody [NB300-747] - Staining of rat prostate.

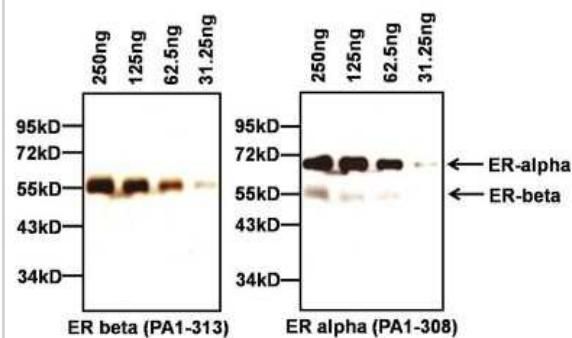
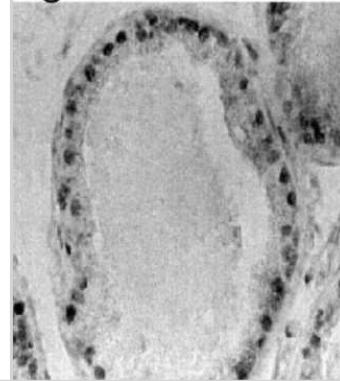


Fig. 1



Publications

Meng L, Gui S, Ouyang Z et al. Low-dose bisphenols exposure sex-specifically induces neurodevelopmental toxicity in juvenile rats and the antagonism of EGCG. Journal of hazardous materials 2023-07-17 [PMID: 37473573]

Duong, B N, Elliott, S, Frigo, D E, Melnik, L I, Vanhoy, L, Tomchuck, S, Lebeau, H P, David, O, Beckman, B S, Alam, J, Bratton, M R, McLachlan, J A, Burow, M E. AKT Regulation of Estrogen Receptor {beta} Transcriptional Activity in Breast Cancer. 66, 8373-8381. 2006-01-01 [PMID: 16951146]



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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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