Product Datasheet

Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) - BSA Free

NB300-562

Unit Size: 100uL

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

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Publications: 2

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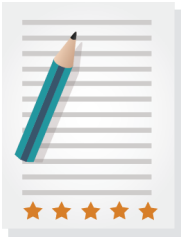
Updated 9/9/2025 v.20.1



NB300-562

Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) - BSA Free

Product Information

Unit Size	100uL
Concentration	1.4 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	H10E4C9F
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS

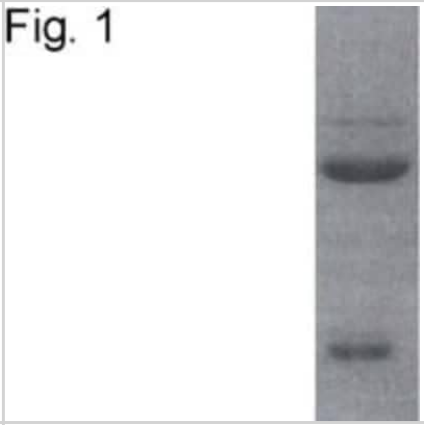
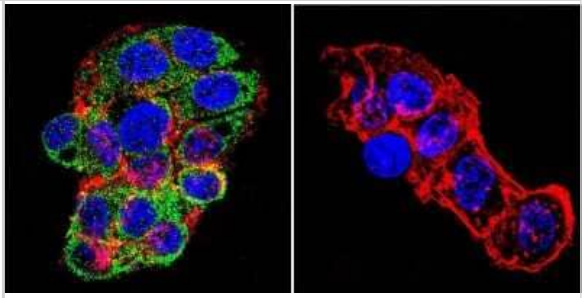
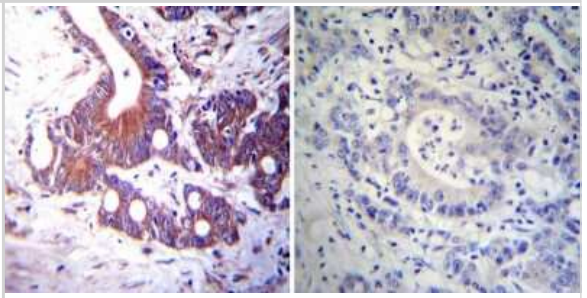
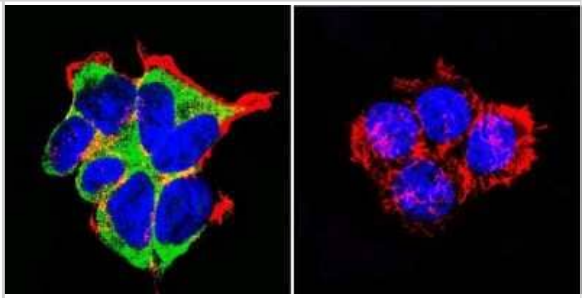
Product Description

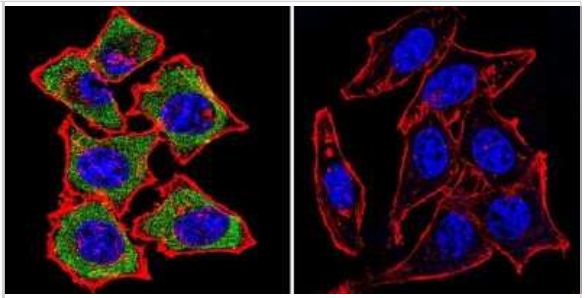
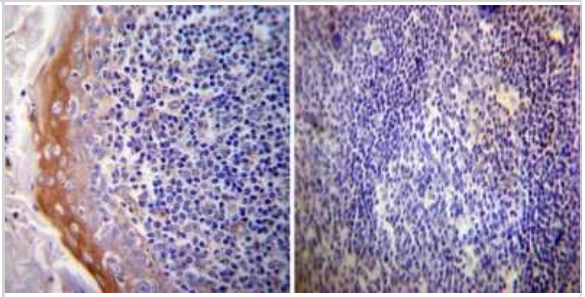
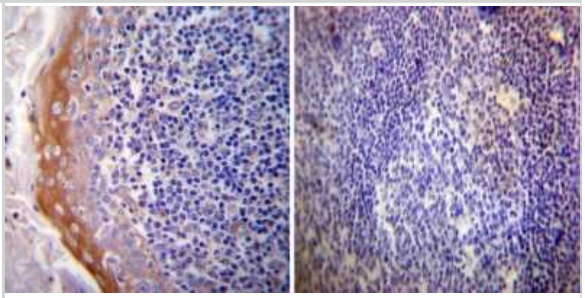
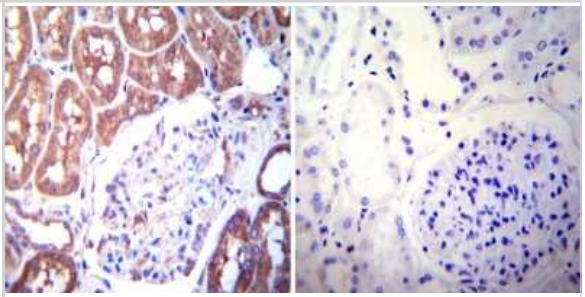
Description	Novus Biologicals Mouse Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) - BSA Free (NB300-562) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-Mineralocorticoid R/NR3C2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4306
Gene Symbol	NR3C2
Species	Human, Mouse, Rat, Chicken, Rabbit, Sheep
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 12198239). Sheep reactivity reported in scientific literature (PMID: 5695102).
Specificity/Sensitivity	Detects mineralocorticoid receptor (MR).
Immunogen	Aldosterone-3

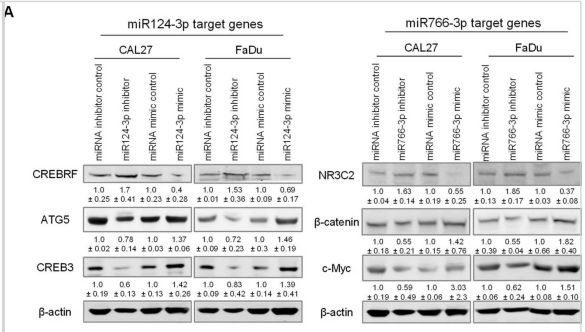
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Block/Neutralize
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:20, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:100 - 1:200, Immunohistochemistry-Paraffin 1:100, Block/Neutralize
Application Notes	Useful in IHC, ICC, and WB. Not suitable for IP. WB: Detects an approx. 116 kDa protein representing MR in rat heart homogenate. IHC: Staining of MR in rabbit atrium with NB300-562 results in strong staining of myocytes and endothelial cells. IHC: Staining with NB300-562 is blocked by pre-incubating the sample with aldosterone. NB300-562 can also be used in formalin-fixed, paraffin-embedded sections. Due to the extremely low levels of MR expressed in native tissues, it is recommended that enhanced detection systems be used for WBting such as enhanced chemiluminescence. NB300-562 blocks the binding of aldosterone since it is directed against the steroid binding domain of the mineralocorticoid receptor.

Images

Western Blot: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Analysis of Mineralocorticoid Receptor.	
Immunocytochemistry/Immunofluorescence: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Mineralocorticoid Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Mineralocorticoid Receptor at a dilution of 1:20-1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.	
Immunohistochemistry-Paraffin: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Both normal and cancer biopsies of deparaffinized Human colon carcinoma tissues.	
Immunocytochemistry/Immunofluorescence: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Mineralocorticoid Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Mineralocorticoid Receptor at a dilution of 1:20-1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.	

Immunocytochemistry/Immunofluorescence: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Mineralocorticoid Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Mineralocorticoid Receptor at a dilution of 1:20-1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.	
Immunohistochemistry-Paraffin: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Both normal and cancer biopsies of deparaffinized Human tonsil tissues.	
Immunohistochemistry-Paraffin: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Both normal and cancer biopsies of deparaffinized Human tonsil tissues.	
Immunohistochemistry-Paraffin: Mineralocorticoid R/NR3C2 Antibody (H10E4C9F) [NB300-562] - Both normal and cancer biopsies of deparaffinized Human kidney tissue tissues	



The role of miR124-3p and miR766-3p target genes in HNSCC drug resistance. (A) Expression analysis of miR124-3p and miR766-3p direct target genes and downstream target genes by Western blot in HNSCC cell lines (CAL27 and FaDu), with or without transfection with miRNA inhibitors or miRNA mimics. Left: Western blotting showed the expression of miR124-3p target gene (CREBRF) and CREBRF target genes (ATG5 and CREB3). Right: Western blotting showed the expression of miR766-3p target gene (NR3C2) and NR3C2 target genes (β-catenin and c-Myc). Quantitative data (relative expression levels after β-actin-corrected) from three independent experiments are disclosed below each protein band. Data represent the mean +/- SD (n = 3). (B) Target gene analysis in sensitive (CAL27) vs. resistant (CAL27/FP-R) HNSCC cell lines. Quantitative data (relative expression levels after β-actin-corrected) is shown below each protein band. (C) The effect of NR3C2 and/or CREBRF knockdown on drug-induced cytotoxicity in CAL27 and FaDu. Cells were transfected by 10 nM siRNA (single or combined) for 24 h followed by 72 h exposure to the indicated drug. Cytotoxicity was determined by MTT assay. IC50 values are listed in Table S7. (D) Measurement of apoptosis in CAL27 or FaDu cells in response to cisplatin or 5-FU +/- 24 h prior transfection with 10 nM siRNA. After 24 h of drug treatments, cells were labeled with anti-annexin V-FITC antibody and PI and then analyzed with flow cytometry. A two-way ANOVA with Bonferroni's correction for multiple comparisons was used to analyze group comparisons, and data are presented as means +/- SD (n = 3). * $p < 0.05$, *** $p < 0.001$ (vs. control siRNA), and ### $p < 0.001$ (vs. untreated). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/36358691), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Publications

Shibata T, Cao D, Dar T et al. miR766-3p and miR124-3p Dictate Drug Resistance and Clinical Outcome in HNSCC Cancers 2022-10-27 [PMID: 36358691] (WB, IF/IHC, Mouse)

Leite-Dellova DCA, Szriber SJ, Merighe GKF et al. Signaling pathways involved in the rapid biphasic effect of aldosterone on Na+/H+ exchanger in rat proximal tubule cells. J. Steroid Biochem. Mol. Biol. 2018-04-24 [PMID: 29702262] (WB, Rat)

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