

NR3C2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17202c

Specification

NR3C2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P08235
Other Accession	Q91573 , P22199 , Q8VII8 , NP_000892.2
Reactivity	Human
Predicted	Mouse, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	107082
Antigen Region	654-683

NR3C2 Antibody (Center) - Additional Information

Gene ID 4306

Other Names

Mineralocorticoid receptor, MR, Nuclear receptor subfamily 3 group C member 2, NR3C2, MCR, MLR

Target/Specificity

This NR3C2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 654-683 amino acids from the Central region of human NR3C2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NR3C2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NR3C2 Antibody (Center) - Protein Information

Name NR3C2

Synonyms MCR, MLR

Function Receptor for both mineralocorticoids (MC) such as aldosterone and glucocorticoids (GC) such as corticosterone or cortisol. Binds to mineralocorticoid response elements (MRE) and transactivates target genes. The effect of MC is to increase ion and water transport and thus raise extracellular fluid volume and blood pressure and lower potassium levels.

Cellular Location

Cytoplasm. Nucleus. Endoplasmic reticulum membrane; Peripheral membrane protein.

Note=Cytoplasmic and nuclear in the absence of ligand; nuclear after ligand-binding. When bound to HSD11B2, it is found associated with the endoplasmic reticulum membrane

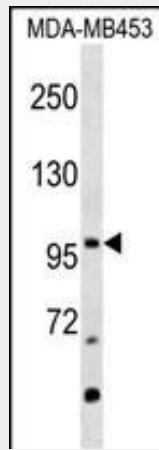
Tissue Location

Ubiquitous. Highly expressed in distal tubules, convoluted tubules and cortical collecting duct in kidney, and in sweat glands. Detected at lower levels in cardiomyocytes, in epidermis and in colon enterocytes.

NR3C2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NR3C2 Antibody (Center) - Images

NR3C2 Antibody (Center) (Cat. #AP17202c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the NR3C2 antibody detected the NR3C2 protein (arrow).

NR3C2 Antibody (Center) - Background

This gene encodes the mineralocorticoid receptor, which mediates aldosterone actions on salt and water balance within restricted target cells. The protein functions as a

ligand-dependent transcription factor that binds to mineralocorticoid response elements in order to transactivate target genes. Mutations in this gene cause autosomal dominant pseudohypoaldosteronism type I, a disorder characterized by urinary salt wasting. Defects in this gene are also associated with early onset hypertension with severe exacerbation in pregnancy. Alternative splicing results in multiple transcript variants.

NR3C2 Antibody (Center) - References

van Leeuwen, N., et al. Hypertension 56(5):995-1002(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Bouma, E.M., et al. Behav. Genet. (2010) In press :
Bogdan, R., et al. Genes Brain Behav. 9(6):658-667(2010)
Gu, D., et al. J. Hypertens. 28(6):1210-1220(2010)