

Datasheet for ABIN3043575
anti-NR3C2 antibody (C-Term)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	NR3C2
Binding Specificity:	AA 950-984, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Mineralocorticoid receptor(NR3C2) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human NR3C2 (950-984aa HALKVEFPAMLVEIISDQLPKVESGNAKPLYFHRK), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Sequence:	HALKVEFPAM LVEIISDQLP KVESGNAKPL YFHRK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Mineralocorticoid receptor(NR3C2) detection. Tested with WB in Human,Mouse,Rat.</p> <p>Gene Name: nuclear receptor subfamily 3, group C, member 2</p> <p>Protein Name: Mineralocorticoid receptor</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: NR3C2

Alternative Name: NR3C2 ([NR3C2 Products](#))

Background: NR3C2 (nuclear receptor subfamily 3, group C, member 2), also known as MR (mineralocorticoid receptor), is a protein that in humans is encoded by the NR3C2 gene that is located on chromosome 4q31.1-31.2. It belongs to the nuclear receptor family where the ligand diffuses into cells, interacts with the receptor and results in a signal transduction affecting specific gene expression in the nucleus. 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.

Synonyms: Aldosterone receptor antibody|MCR antibody|MCR_HUMAN antibody|MGC133092 antibody| Mineralocorticoid receptor antibody|MLR antibody|MR antibody|NR3 C2 antibody|NR3C2 antibody|NR3C2 protein antibody|Nuclear receptor subfamily 3 group C member 2 antibody

Gene ID: 4306

UniProt: [P08235](#)

Pathways: [ACE Inhibitor Pathway](#), [Nuclear Receptor Transcription Pathway](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Steroid Hormone Mediated Signaling Pathway](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
Notes: Tested Species: Species with positive results.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

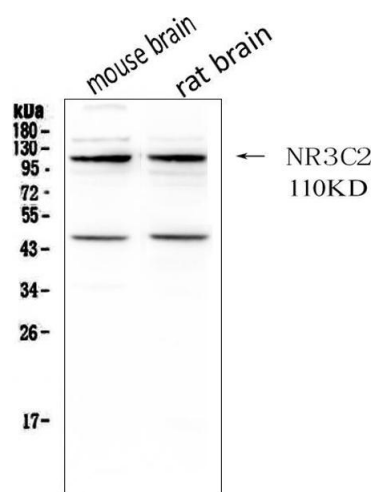
Product cited in:	Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: FEBS letters , Vol. 589, Issue 8, pp. 897-903, (2015) (PubMed).
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Images



Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of NR3C2 using anti- NR3C2 antibody . Electrophoresis was performed on a 5-20% SDS- PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse brain tissue lysates, Lane 2: rat brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- NR3C2 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS- 0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NR3C2 at approximately 110KD. The expected band size for NR3C2 is at 110KD.