Overview

Product name
Anti-HSD11B2 antibody

Description
Rabbit polyclonal to HSD11B2

Host species
Rabbit

Tested applications
Suitable for: WB

Species reactivity
Reacts with: Mouse, Human
Predicted to work with: Rat, Sheep, Rabbit, Horse, Guinea pig, Cow, Pig

Immunogen
Synthetic peptide designed within amino acids: MERWPWPSG AWLLVAARAL LQLLRSDLRL GRPLLAALAL LAALDWLCQR, corresponding to N terminal residues 1-50 of Human HSD11B2 (NP_000187)

Positive control
Fetal muscle lysate.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer
Preservative: 0.09% Sodium azide
 Constituents: 2% Sucrose, PBS

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab80317 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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**Function**
Catalyzes the conversion of cortisol to the inactive metabolite cortisone. Modulates intracellular glucocorticoid levels, thus protecting the nonselective mineralocorticoid receptor from occupation by glucocorticoids.

**Tissue specificity**
Found in placenta, kidney, pancreas, prostate, ovary, small intestine and colon.

**Involvement in disease**
Defects in HSD11B2 are the cause of apparent mineralocorticoid excess (AME) [MIM:218030]. AME is a potentially fatal disease characterized by severe juvenile low-renin hypertension, sodium retention, hypokalemia and low levels of aldosterone. It often leads to nephrocalcinosis.

**Sequence similarities**
Belongs to the short-chain dehydrogenases/reductases (SDR) family.

**Cellular localization**
Microsome. Endoplasmic reticulum.

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**Target**

**Application**

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Use a concentration of 1 µg/ml. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

**Notes**

- **Western blot**
  - **Primary**
    - Anti-HSD11B2 antibody (ab80317) at 1 µg/ml
    - + fetal muscle lysate at 10 µg
  - **Secondary**
    - HRP conjugated anti-Rabbit IgG at 1/50000 dilution
- **Predicted band size**: 44 kDa
- **Observed band size**: 44 kDa
- **Additional bands at**: 37 kDa. We are unsure as to the identity of these extra bands.

**Gel concentration**: 12%

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**Please note**: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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