Product datasheet

Anti-HSD11B2 antibody ab80317

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: MERWPWPSSG AWLLVAARAL LQLLRSDLRL GRPLLAAL ALAALDWLCQR, 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.
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.

Application | Abreviews | Notes
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WB | ⭐⭐⭐⭐ | 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.

Images

Western blot - 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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