BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-HSD11B2 Antibody Picoband® HRP Conjugated

Catalog Number: RP1094-HRP

About HSD11B2

Corticosteroid 11-beta-dehydrogenase isozyme 2, also known as 11-beta-hydroxysteroid dehydrogenase 2, is an enzyme that in humans is encoded by the HSD11B2 gene. There are at least two isozymes of the corticosteroid 11-beta-dehydrogenase, a microsomal enzyme complex responsible for the interconversion of cortisol and cortisone. The type I isozyme has both 11-beta-dehydrogenase (cortisol to cortisone) and 11-oxoreductase (cortisone to cortisol) activities. The type II isozyme, encoded by this gene, has only 11-beta-dehydrogenase activity. In aldosterone-selective epithelial tissues such as the kidney, the type II isozyme catalyzes the glucocorticoid cortisol to the inactive metabolite cortisone, thus preventing illicit activation of the mineralocorticoid receptor. In tissues that do not express the mineralocorticoid receptor, such as the placenta and testis, it protects cells from the growth-inhibiting and/or pro-apoptotic effects of cortisol, particularly during embryonic development. Mutations in this gene cause the syndrome of apparent mineralocorticoid excess and hypertension.

Overview

Product Name	Anti-HSD11B2 Antibody Picoband® HRP Conjugated
Reactive Species	Human, Mouse, Rat
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P80365

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HSD11B2, different from the related mouse sequence by five amino acids, and from the related rat sequence by three amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	HRP

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Suggested Dilutions	Western blot, Optimal dilutions should be determined by end users. Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users. ELISA, Optimal dilutions should be determined by end users.

Anti-HSD11B2 Antibody - HRP

For Research Use Only. Not for use in diagnostic procedures.