

Product datasheet for **AP31830PU-N**

HSD11B1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: 1/100. Western Blot: 1/500 - 1/3000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide
Specificity:	This Polyclonal antibody is directed against human 11-Hydroxysteroid Dehydrogenase(Type 1)protein. Expect reactivity with Human 11-Hydroxysteroid Dehydrogenase(Type 1). Cross-reactivity with 11-Hydroxysteroid Dehydrogenase (Type 1) from other sources has not been determined.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	hydroxysteroid (11-beta) dehydrogenase 1
Database Link:	Entrez Gene 15483 Mouse Entrez Gene 25116 Rat Entrez Gene 3290 Human P28845



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Background:

HSD11B1 Catalyzes reversibly the conversion of cortisol to the inactive metabolite cortisone. Catalyzes reversibly the conversion of 7-ketocholesterol to 7-beta-hydroxycholesterol. In intact cells, the reaction runs only in one direction, from 7-ketocholesterol to 7-beta-hydroxycholesterol.

Defects in HSD11B1 are a cause of cortisone reductase deficiency (CRD) [MIM:604931]. In CRD, activation of cortisone to cortisol does not occur, resulting in adrenocorticotropin-mediated androgen excess and a phenotype resembling polycystic ovary syndrome (PCOS).

Synonyms:

11-beta-hydroxysteroid dehydrogenase 1, HSD11, HSD11L, 11-DH

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways

Product images:

Formalin-Fixed, Paraffin-Embedded Human Lung, Macrophages stained with HSD11B1 antibody