# PRODUCT INFORMATION



### 11β-Hydroxysteroid Dehydrogenase (Type 2) Polyclonal Antibody

Item No. 10004549

### **Overview and Properties**

Contents: This vial contains 500 µl of peptide affinity-purified polyclonal antibody.

Synonyms: 11β-HSD2, Corticosteroid 11β-Dehydrogenase Isoenzyme 2 Immunogen: Synthetic peptide from the N-terminal region of human 11\beta-HSD2

Species Reactivity: (+) Human, mouse, and rat; other species not tested

P80365 **Uniprot No.:** Form: Liquid

-20°C (as supplied) Storage:

Stability: ≥3 years

Storage Buffer: TBS, pH 7.4, with 50% glycerol, 0.1% BSA, and 0.02% sodium azide

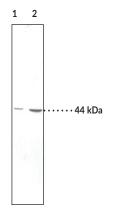
Host:

Immunohistochemistry (IHC) and Western blot (WB); the recommended starting Applications:

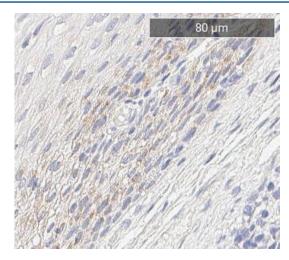
dilution for IHC is 1:100. WB and other applications were not tested, therefore optimal

working concentration/dilution should be determined empirically.

### **Images**



Lane 1: Mouse kidney 100,000 x g pellet  $\begin{array}{c} \text{resuspension (22.5 } \mu\text{g)} \\ \text{Lane 2: Mouse kidney 100,000 } \text{x g pellet} \end{array}$ resuspension (40 µg)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded (FFPE) human kidney tissue after heat-induced antigen retrieval in pH 6.0 citrate buffer. After incubation with 11β-Hydroxysteroid Dehydrogenase (Type 2) Polyclonal Antibody (Item No. 10004549) at a 1:100 dilution, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen (DAB).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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# PRODUCT INFORMATION



#### Description

11β-Hydroxysteroid Dehydrogenase (Type 2) (11β-HSD2) catalyzes the conversion of cortisol (Hydrocortisone; Item No. 20739) to the inactive glucocorticoid cortisone (Item No. 30763), thereby protecting the mineralcorticoid receptor from glucocorticoid excess. It is primarily expressed in the kidneys, but has also been detected in the colon, salivary glands, and fetal tissues, including the placenta, and is localized to the endoplasmic reticulum. In Knockout of HSD11B2, the gene encoding 11β-HSD2, reduces fetal and placental growth as well as capillary development in mice. Loss-of-function mutations in HSD11B2 result in apparent mineralcorticoid excess (AME), an inborn error of metabolism characterized by hypertension, hypokalemia, and reduced plasma renin activity. Cayman's 11β-Hydroxysteroid Dehydrogenase (Type 2) Polyclonal Antibody can be used for immunohistochemistry (IHC) and Western blot (WB) applications. The antibody recognizes 11β-HSD2 at 44 kDa from mouse samples.

#### References

- 1. White, P.C., Mune, T., and Agarwal, A.K. 11β-hydroxysteroid dehydrogenase and the syndrome of apparent mineralocorticoid excess. *Endocr. Rev.* **18(1)**, 135-156 (1997).
- 2. Náray-Fejes-Tóth, A. and Fejes-Tóth, G. Subcellular localization of the type 2 11β-hydroxysteroid dehydrogenase. A green fluorescent protein study. *J. Biol. Chem.* **271(26)**, 15436-15442 (1996).
- 3. Wyrwoll, C.S., Seckl, J.R., and Holmes, M.C. Altered placental function of 11β-hydroxysteroid dehydrogenase 2 knockout mice. *Endocrinology* **150(3)**, 1287-1293 (2009).

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