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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

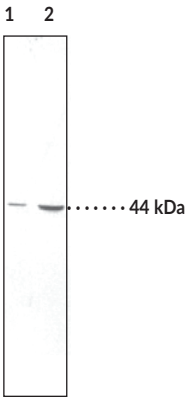
11β-Hydroxysteroid Dehydrogenase (Type 2) Polyclonal Antibody

Item No. 10004549

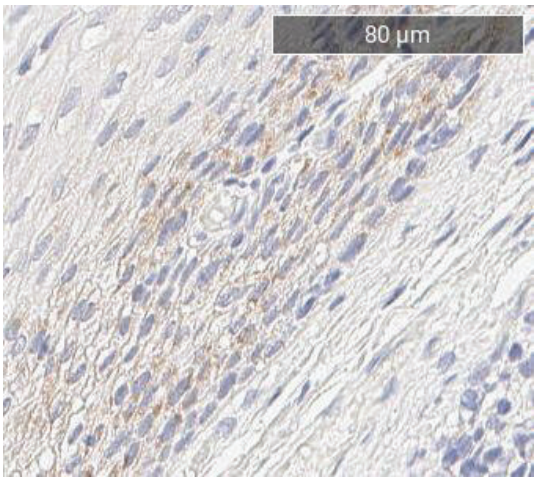
Overview and Properties

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 11β-HSD2
Species Reactivity:	(+) Human, mouse, and rat; other species not tested
Uniprot No.:	P80365
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Storage Buffer:	TBS, pH 7.4, with 50% glycerol, 0.1% BSA, and 0.02% sodium azide
Host:	Rabbit
Applications:	Immunohistochemistry (IHC) and Western blot (WB); the recommended starting 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 resuspension (22.5 µg)
Lane 2: Mouse kidney 100,000 x g pellet 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).

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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.[1] 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.[1,2] Knockout of *HSD11B2*, the gene encoding 11β-HSD2, reduces fetal and placental growth as well as capillary development in mice.[3] 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.[1] 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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