bs-3618R **[Primary Antibody]**

HSD11B2 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3291 **SWISS:** P80365

Target: HSD11B2

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. [provided by RefSeq, Feb 2010]

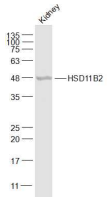
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat

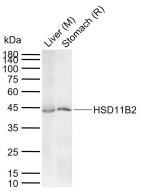
Predicted MW.: 45 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti-HSD11B2 (bs-3618R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 48 kD



Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Rat Stomach tissue lysates Primary: Anti-HSD11B2 (bs-3618R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 45 kDa

SELECTED CITATIONS

- **[IF=6.291]** Xue-Ting Shi. et al. Gestational cadmium exposure impairs placental angiogenesis via activating GC/GR signaling. Ecotox Environ Safe. 2021 Nov;224:112632 IHC ;Human. 34411824
- **[IF=4.225]** Haojing Liuet al. Glucocorticoid Exposure Induces Preeclampsia via DampeningLipoxin A4, an Endogenous Anti-Inflammatory and Proresolving Mediator. Front Pharmacol . 2020 Jul 28;11:1131. WB ;rat. 32848749
- **[IF=3.636]** Nakanishi Tomoya. et al. Cortisol induces follicle regression, while FSH prevents cortisol-induced follicle regression in pigs. Mol Hum Reprod. 2021 May;: WB,IF ;Pig. 34057472
- **[IF=2.7]** Ding, Ying-xue, et al. "Regulation of glucocorticoid-related genes and receptors/regulatory enzyme expression

in intrauterine growth restriction filial rats." Life Sciences (2016). WB ;Rat. 26920630

- **[IF=2.589]** Wang et al. Preeclampsia induced by cadmium in rats is related to abnormal local glucocorticoid synthesis in placenta. (2014) Reprod.Biol.Endocrino. 12:77 IHC ;Rat. 25108313