**bs-11296R** **[ Primary Antibody ]**

# HSD17B4 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 3295 **SWISS:** P51659

**Target:** HSD17B4

**Immunogen:** KLH conjugated synthetic peptide derived from human HSD17B4 Enoyl-CoA hydratase 2: 521-620/736.

**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:** 17Beta-HSD4 (17Beta-hydroxysteroid dehydrogenase type 4) is also known as peroxisomal multifunctional enzyme/protein 2 (MFE-2/MFP-2), D-bifunctional enzyme or 17-Beta Estradiol dehydrogenase type IV. It belongs to the 17Beta-HSD family of proteins that regulate the availability of steroids within various tissues throughout the body. 17Beta-HSD4 inactivates Estradiol through its oxidative activity but it is primarily involved in peroxisomal fatty acid and cholesterol Beta-oxidation. It has a multi-domain structure: the dehydrogenase domain is fused to a hydratase and a lipid transfer domain. 17Beta-HSD4 is a target protein of chromeceptin and it is essential for the downstream activation of Stat6. 17Beta-HSD4-deficient patients exhibit Zellweger-like syndrome and die within the first year of life. They display neuronal migration defects, facial dysmorphisms, severe hypotonia and convulsions in the neonatal period.

**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**ICC/IF** (1:100-500)
**ELISA** (1:5000-10000)

**Reactivity:** (predicted: Human, Mouse, Rat, Pig, Sheep, Cow, Zebrafish, Chicken, GuineaPig, Horse)

**Predicted MW.:** 47/80 kDa

**Subcellular Location:** Cytoplasm

## SELECTED CITATIONS


- **[IF=5.201]** Zhong Yuyi. et al. MIR143 Inhibits Steroidogenesis and Induces Apoptosis Repressed by H3K27me3 in Granulosa Cells. Front Cell Dev Biol. 2020 Oct;8:1159 WB ;Porcine. 33195195
- **[IF=4.2]** Zhang, Weidong, et al. "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." Chemosphere (2017). IHC ;Mouse. 29202267