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Datasheet for ABIN5004883  
**anti-HSD17B4 antibody (AA 521-620) (Alexa Fluor 680)**

## Overview

Quantity:	100 µL
Target:	HSD17B4
Binding Specificity:	AA 521-620
Reactivity:	Mouse, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSD17B4 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human HSD17B4 Enoyl-CoA hydratase 2
Isotype:	IgG
Cross-Reactivity:	Mouse, Sheep, Zebrafish (Danio rerio)
Predicted Reactivity:	Human,Rat,Cow,Pig,Horse,Chicken,Guinea Pig
Purification:	Purified by Protein A.

## Target Details

Target:	HSD17B4
Alternative Name:	HSD17B4 ( <a href="#">HSD17B4 Products</a> )

## Target Details

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**Background:** Synonyms: hydroxysteroid 17-beta dehydrogenase 4, 12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase, 17 beta HSD 4, 17 beta HSD IV, 17 beta hydroxysteroid dehydrogenase 4, 17-beta-HSD 4, 17-beta-hydroxysteroid dehydrogenase 4, 17beta estradiol dehydrogenase type IV, 3 alpha 7 alpha 12 alpha trihydroxy 5 beta cholest 24 enoyl CoA hydratase antibody 3-alpha, 7-alpha, Beta hydroxyacyl dehydrogenase, Beta keto reductase, D 3 hydroxyacyl CoA dehydratase, D bunctional protein, D bunctional protein peroxisomal, D-bunctional protein, DBP, DHB4\_HUMAN, EDH17B4, Enoyl-CoA hydratase 2, Hsd17b4, MFE 2, MFE-2, MPF-2, Multifunctional protein 2, Peroxisomal multifunctional enzyme type 2, Peroxisomal multifunctional protein 2, SDR8C1, Short chain dehydrogenase/reductase family 8C member 1.

**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.

**Pathways:** [Monocarboxylic Acid Catabolic Process](#)

## Application Details

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**Application Notes:** IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1 µg/µL

**Buffer:** Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

## Handling

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Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months