

Datasheet for ABIN1408322

anti-HSD17B4 antibody (AA 521-620) (HRP)



[Go to Product page](#)

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 HRP
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

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 (HSD17B4 Products)

Target Details

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 alpha12 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.
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Pathways:	Monocarboxylic Acid Catabolic Process
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Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only
Handling	
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

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months