产品货号: APRab06321



产品概述 (Summary)

产品名称 (Production Name) 3β-HSD7 Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit 应用 (Application) WB,ELISA

种属反应性 (Reactivity) Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) HSD3B7

HSD3B7; 3 beta-hydroxysteroid dehydrogenase type 7; 3 beta-hydroxysteroid

dehydrogenase type VII; 3-beta-HSD VII; 3-beta-hydroxy-Delta(5)-C27 steroid

别名 (Alternative Names)
oxidoreductase; C(27) 3-beta-HSD; Cholest-5-ene-3-beta; 7-alpha-diol 3-

beta-dehydrogenase

基因 ID (Gene ID) 80270.0

Q9H2F3.The antiserum was produced against synthesized peptide derived 蛋白ID (SwissProt ID)

from human HSD3B7. AA range:121-170

产品应用(Application)

稀释比 (Dilution Ratio) WB 1:500-1:2000,ELISA 1:10000-1:20000

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蛋白分子量 (Molecular Weight) 41kDa

研究背景 (Background)

This gene encodes an enzyme which is involved in the initial stages of the synthesis of bile acids from cholesterol and a member of the short-chain dehydrogenase/reductase superfamily. The encoded protein is a membrane-associated endoplasmic reticulum protein which is active against 7-alpha hydrosylated sterol substrates. Mutations in this gene are associated with a congenital bile acid synthesis defect which leads to neonatal cholestasis, a form of progressive liver disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008],catalytic activity:3-beta-hydroxy-Delta(5)-steroid + NAD(+) = 3-oxo-Delta(5)-steroid + NADH.,catalytic activity:Cholest-5-ene-3-beta,7-alpha-diol + NAD(+) = 7-alpha-hydroxycholest-4-en-3-one + NADH.,disease:Defects in HSD3B7 are the cause of congenital bile acid synthesis defect type 1 (CBAS1) [MIM:607765]; also known as neonatal progressive intrahepatic cholestasis. CBAS1 is due to a primary defect in bile synthesis leading to progressive liver disease. Clinical features include neonatal jaundice, severe intrahepatic cholestasis and cirrhosis., function: Plays a central role during spermatogenesis by repressing transposable elements and prevent their mobilization, which is essential for the germline integrity. Plays an essential role in meiotic differentiation of spermatocytes, germ cell differentiation and in self-renewal of spermatogonial stem cells. Its presence in oocytes suggests that it may participate to similar functions during oogenesis in females. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Directly binds piRNAs, a class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements. Associates with primary piRNAs in the cytoplasm and is required for PIWIL4/MIWI2 nuclear localization and association with secondary piRNAs antisense. The piRNA process acts upstream of known mediators of DNA methylation. Participates to a piRNA amplification loop. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation. Indirectly modulate expression of genes such as PDGFRB, SLC2A1, ITGA6, GJA7, THY1, CD9 and STRA8. Inhibits tumor cell growth when repressed. When overexpressed, acts as an oncogene by inhibition of apoptosis and promotion of proliferation in tumors., function: The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. HSD VII is active against four 7-alpha-hydroxylated steroils. Does not metabolize several different C(19/21) steroids as substrates. Involved in bile acid synthesis., pathway: Lipid metabolism; steroid biosynthesis, sequence caution: Translated as Arq., similarity: Belongs to the 3-beta-HSD family., similarity: Belongs to the argonaute family. Piwi subfamily., similarity: Contains 1 PAZ domain., similarity: Contains 1 Piwi domain., subcellular location:Present in chromatoid body. Probable component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon during meiosis., subunit: Interacts with DDX4, MAEL, EIF3A, EIF4E and EIF4G. Associates with EIF4E- and EIF4G-containing m7G cap-binding complexes, tissue specificity: Expressed in adult testis and in most tumors...

研究领域(Research Area)

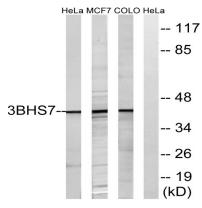
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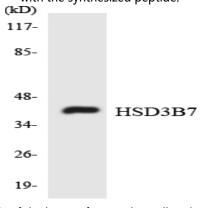


Primary bile acid biosynthesis; Dorso-ventral axis formation;

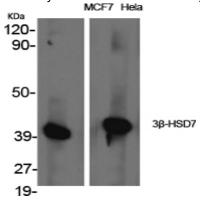
图片 (Image Data)



Western blot analysis of lysates from HeLa, MCF-7, and COLO cells, using HSD3B7 Antibody. The lane on the right is blocked with the synthesized peptide.



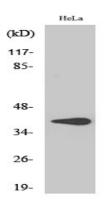
Western blot analysis of the lysates from Jurkat cells using HSD3B7 antibody.



Western Blot analysis of various cells using 3β-HSD7 Polyclonal Antibody diluted at 1: 1000

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Western Blot analysis of COLO205 cells using 3β-HSD7 Polyclonal Antibody diluted at 1: 1000

注意事项 (Note)

For research use only .

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