产品名称：DPYD Rabbit Polyclonal Antibody
产品货号：APRab10142

产品概述（Summary）

产品名称（Production Name）	DPYD Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,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
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	DPYD
别名（Alternative Names）	DPYD; Dihydropyrimidine dehydrogenase [NADP(+)]; DHPDHase; DPD; Dihydrothymine dehydrogenase; Dihydrouracil dehydrogenase
基因 ID（Gene ID）	1806.0
蛋白 ID（SwissProt ID）	Q12882.The antiserum was produced against synthesized peptide derived from the Internal region of human DPYD. AA range:351-400

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量（Molecular Weight）	120kDa

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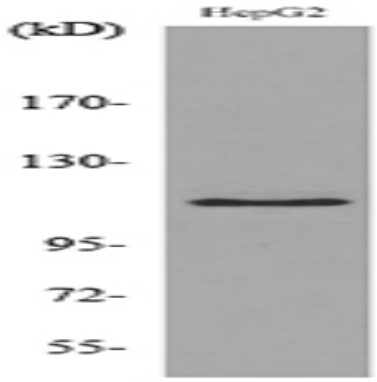
研究背景（Background）

The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. Mutations in this gene result in dihydropyrimidine dehydrogenase deficiency, an error in pyrimidine metabolism associated with thymine-uraciluria and an increased risk of toxicity in cancer patients receiving 5-fluorouracil chemotherapy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009],catalytic activity:5,6-dihydrouracil + NADP(+) = uracil + NADPH.,cofactor:Binds 2 4Fe-4S clusters. Contains approximately 33 iron atoms per molecule.,cofactor:Binds 2 FAD.,cofactor:Binds 2 FMN.,disease:Defects in DPYD are the cause of dihydropyrimidine dehydrogenase deficiency (DPYD deficiency) [MIM:274270]; also known as hereditary thymine-uraciluria or familial pyrimidinemia. DPYD deficiency is a disease characterized by persistent urinary excretion of excessive amounts of uracil, thymine and 5-hydroxymethyluracil. Patients suffering from this disease show a severe reaction to the anticancer drug 5-fluorouracil. This reaction includes stomatitis, Leukopenia, thrombocytopenia, hair loss, diarrhea, fever, marked weight loss, cerebellar ataxia, and neurologic symptoms, progressing to semicoma.,function:Involved in pyrimidine base degradation. Catalyzes the reduction of uracil and thymine. Also involved the degradation of the chemotherapeutic drug 5-fluorouracil.,pathway:Amino-acid biosynthesis; beta-alanine biosynthesis.,similarity:Belongs to the dihydropyrimidine dehydrogenase family.,similarity:Contains 3 4Fe-4S ferredoxin-type domains.,subunit:Homodimer.,tissue specificity:Found in most tissues with greatest activity found in liver and peripheral blood mononuclear cells.,

研究领域（Research Area）

Pyrimidine metabolism;beta-Alanine metabolism;Pantothenate and CoA biosynthesis;Drug metabolism;

图片（Image Data）



Western blot analysis of lysate from HepG2 cells, using DPYD Antibody.

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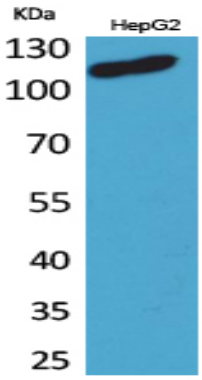
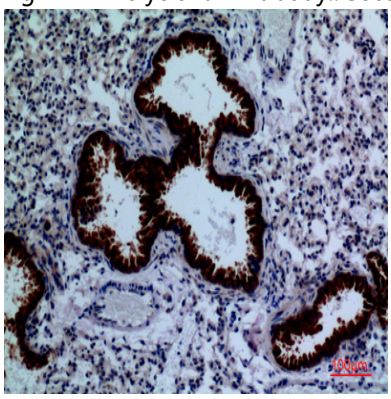
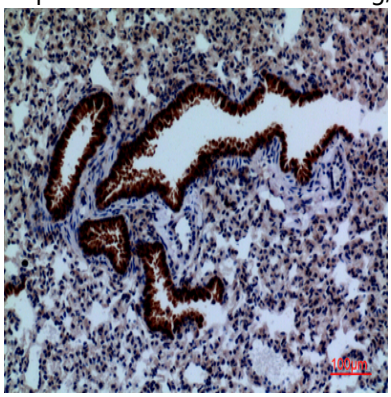


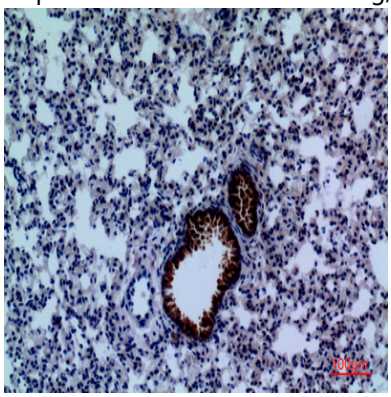
Western Blot analysis of HepG2 cells using DPYD Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded mouse-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mouse-lung, antibody was diluted at 1:100



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Immunohistochemical analysis of paraffin-embedded mouse-lung, antibody was diluted at 1:100

注意事项（Note）

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