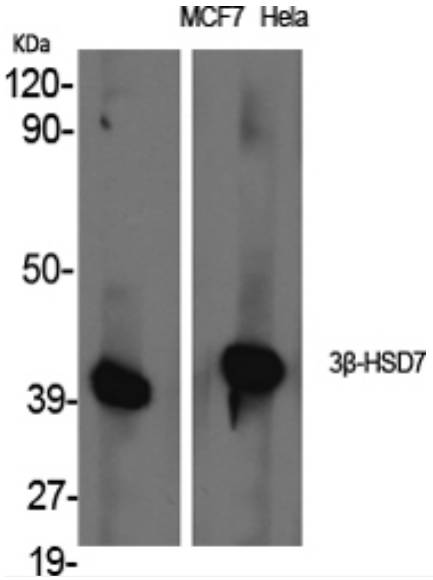
3β-HSD7 Polyclonal Antibody

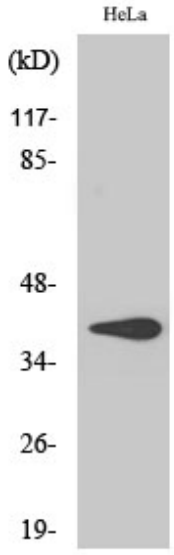
Catalog No	BYab-02445
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	HSD3B7
Protein Name	3 beta-hydroxysteroid dehydrogenase type 7
Immunogen	The antiserum was produced against synthesized peptide derived from human HSD3B7. AA range:121-170
Specificity	3β-HSD7 Polyclonal Antibody detects endogenous levels of 3β-HSD7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HSD3B7; 3 beta-hydroxysteroid dehydrogenase type 7; 3 beta-hydroxysteroid dehydrogenase type VII; 3-beta-HSD VII; 3-beta-hydroxy-Delta(5)-C27 steroid oxidoreductase; C(27) 3-beta-HSD; Cholest-5-ene-3-beta; 7-alpha-diol 3-beta-dehydrogenase
Observed Band	41kD
Cell Pathway	Endoplasmic reticulum membrane; Multi-pass membrane protein.
Tissue Specificity	Stomach,Testis,Uterus,
Function	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 tha
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

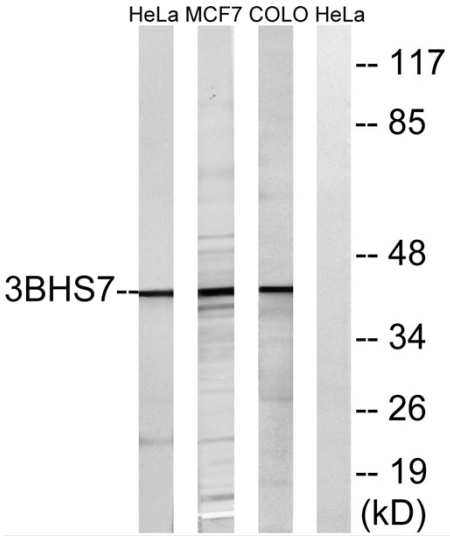
Products Images



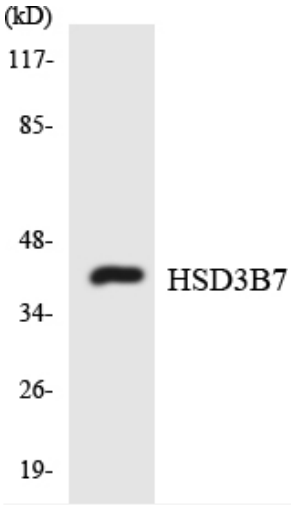
Western Blot analysis of various cells using 3β-HSD7 Polyclonal Antibody diluted at 1:1000



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



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.