

ARG44488 anti-HSD3B7 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HSD3B7
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HSD3B7
Species	Human
Immunogen	Human HSD3B7 recombinant protein
Conjugation	Un-conjugated
Alternate Names	HSD3B7; Hydroxy-Delta-5-Steroid Dehydrogenase, 3 Beta- And Steroid Delta-Isomerase 7; C(27)-3BETA-HSD; SDR11E3; Short Chain Dehydrogenase/Reductase Family 11E, Member 3; Cholest-5-Ene-3-Beta,7-Alpha-Diol 3-Beta-Dehydrogenase; 3-Beta-Hydroxy-Delta(5)-C27 Steroid Oxidoreductase; 3 Beta-Hydroxysteroid Dehydrogenase Type VII; 3 Beta-Hydroxysteroid Dehydrogenase Type 7; C(27) 3-Beta-HSD; 3-Beta-HSD VII; 3 Beta-Hydroxy-Delta 5-C27-Steroid Oxidoreductase

Application Instructions

Application table	Application	Dilution
	ICC/IF	5 µg/ml
	WB	0.25-0.5 µg/ml

Application Note The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

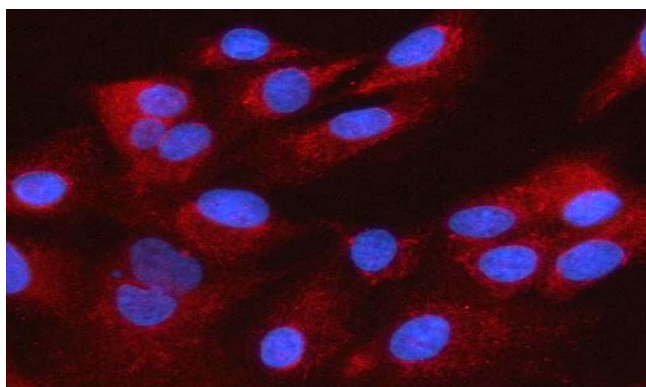
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

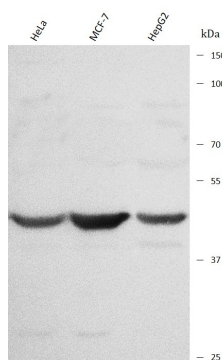
Gene Symbol	HSD3B7
Gene Full Name	Hydroxy-Delta-5-Steroid Dehydrogenase, 3 Beta- And Steroid Delta-Isomerase 7
Background	This gene encodes an enzyme which is involved in the initial stages of the synthesis of bile acids from cholesterol and a member of the short-chain dehydrogenase/reductase superfamily. The encoded protein is a membrane-associated endoplasmic reticulum protein which is active against 7-alpha hydroxylated 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.
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 sterols. Does not metabolize several different C(19/21) steroids as substrates. Involved in bile acid synthesis.
Calculated Mw	41 kDa
Cellular Localization	Endoplasmic reticulum, Membrane

Images



ARG44488 anti-HSD3B7 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG44488 anti-HSD3B7 antibody at 5 µg/mL dilution.



ARG44488 anti-HSD3B7 antibody WB image

Western blot: HeLa, MCF-7 and HepG2 stained with ARG44488 anti-HSD3B7 antibody at 0.5 µg/mL dilution.