G-Biosciences Image not found or type unknown

Immunotag™ S5A2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITN2920
Product Description	Immunotag™ S5A2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	S5A2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	S5A2 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	SRD5A2
Accession No.	P31213 Q99N99 P31214
Description	steroid 5 alpha-reductase 2(SRD5A2) Homo sapiens This gene encodes a microsomal protein expressed at high levels in androgen-sensitive tissues such as the prostate. The encoded protein is active at acidic pH and is sensitive to the 4-azasteroid inhibitor finasteride. Deficiencies in this gene can result in male pseudohermaphroditism, specifically pseudovaginal perineoscrotal hypospadias (PPSH). [provided by RefSeq, Jul 2008],

Antibody Specification

Cell Pathway/ Category	Steroid hormone biosynthesis,Androgen and estrogen metabolism,Prostate cancer,
Protein Expression	Liver tumor,Placenta,
Subcellular Localization	endoplasmic reticulum membrane,integral component of membrane,organelle membrane,neuronal cell body,cell body fiber,
Protein Function	catalytic activity:A 3-oxo-5-alpha-steroid + acceptor = a 3-oxo-Delta(4)-steroid + reduced acceptor.,disease:Defects in SRD5A2 are the cause of pseudovaginal perineoscrotal hypospadias (PPSH) [MIM:264600]; also known as male pseudohermaphroditism due to 5-alpha-reductase deficiency or 5-ARD deficiency. PPSH is a rare form of male pseudohermaphroditism in which affected males develop normal internal urogenital tracts but fail to develop external male structures. Individuals with PPSH have testicles and tend to have a vagina and labia, but with a small penis capable of ejaculation instead of a clitoris (this penis, however, appears to be a clitoris at birth). These individuals are normally raised as girls. However at puberty their testes will descend, their voice will deepen and they often will develop a male sexual identity. They develop only limited facial hair and will not experience male-pattern baldness. Jeffrey Eugenides won a Pulitzer prize for his 2003 novel 'Middlesex' which describes the life an individual with such a deficiency.,function:Converts testosterone (T) into 5-alpha-dihydrotestosterone (DHT) and progesterone or corticosterone into their corresponding 5-alpha-3-oxosteroids. It plays a central role in sexual differentiation and androgen physiology.,online information:5-alpha reductase entry,polymorphism:Individuals with Thr-49 have an increased risk of prostate cancer. The enzyme with Thr-49 has a higher in vitro V(max) than the Ala-49 enzyme.,similarity:Belongs to the steroid 5-alpha reductase family.,tissue specificity:Expressed in high levels in the prostate and many other androgen-sensitive tissues.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.