Datasheet for ABIN2773867

anti-HSD11B1 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	HSD11B1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Rabbit, Sheep, Cow, Horse, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSD11B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human HSD11B1
Sequence:	QKVVSHCLEL GAASAHYIAG TMEDMTFAEQ FVAQAGKLMG GLDMLILNHI
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%, Sheep: 93%
Characteristics:	This is a rabbit polyclonal antibody against HSD11B1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	HSD11B1

Target Details

Alternative Name:	HSD11B1 (HSD11B1 Products)
Background:	HSD11B1 is a microsomal enzyme that catalyzes the conversion of the stress hormone cortisol to the inactive metabolite cortisone. In addition, HSD11B1 can catalyze the reverse reaction, the conversion of cortisone to cortisol. Too much cortisol can lead to central obesity, and a particular variation in this gene has been associated with obesity and insulin resistance in children.The protein encoded by this gene is a microsomal enzyme that catalyzes the conversion of the stress hormone cortisol to the inactive metabolite cortisone. In addition, the encoded protein can catalyze the reverse reaction, the conversion of cortisone to cortisol. Too much cortisol can lead to central obesity, and a particular variation in this gene has been associated with obesity and insulin resistance in children. Two transcript variants encoding the same protein have been found for this gene. Alias Symbols: 11-DH, 11-beta-HSD1, HDL, HSD11, HSD11B, HSD11L, MGC13539, SDR26C1 Protein Interaction Partner: GKAP1, CD36, Protein Size: 292
Molecular Weight:	32 kDa
Gene ID:	3290
NCBI Accession:	NM_005525, NP_005516
UniProt:	P28845
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Steroid Hormone Biosynthesis, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 292 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

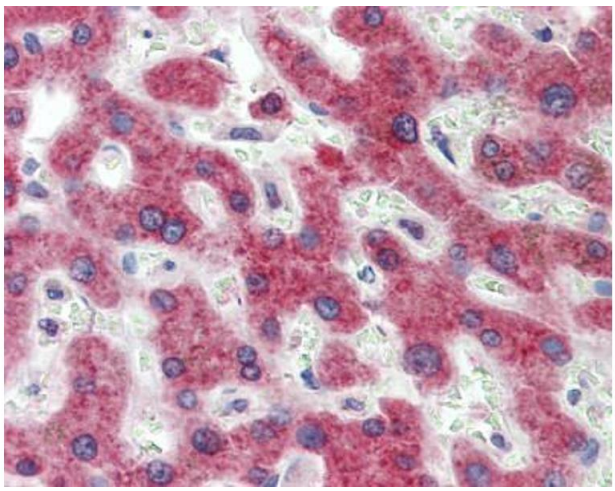
Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

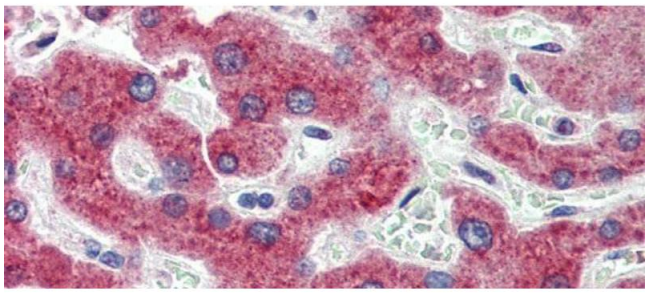
Product cited in:	Suzuki, Imoto, Pimkhaokham, Nakagawa, Kamata, Kozaki, Amagasa, Inazawa: "PRTFDC1, a possible tumor-suppressor gene, is frequently silenced in oral squamous-cell carcinomas by aberrant promoter hypermethylation." in: **Oncogene**, Vol. 26, Issue 57, pp. 7921-32, (2007) (PubMed).

Images



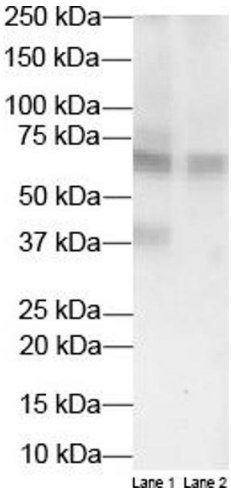
Immunohistochemistry

Image 1.



Immunohistochemistry

Image 2. Immunohistochemistry with Human Liver cell lysate tissue at an antibody concentration of 5.0ug/ml using anti-HSD11B1 antibody



Western Blotting

Image 3. WB Suggested Anti-HSD11B1 Antibody Titration: 2 ug/ml Positive Control: Transient overexpression lysate of HSD11B1 and Non-overexpressed vector control lysate

Please check the product details page for more images. Overall 5 images are available for ABIN2773867.