

**HSD11B1 / HSD11B Antibody (aa232-292)
Rabbit Polyclonal Antibody
Catalog # ALS16842**

Specification

HSD11B1 / HSD11B Antibody (aa232-292) - Product Information

Application	IHC, ICC, WB
Primary Accession	P28845
Other Accession	3290
Reactivity	Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	32401

HSD11B1 / HSD11B Antibody (aa232-292) - Additional Information

Gene ID 3290

Other Names

HSD11B1, 11-beta-HSD1, 11-DH, CORTRD2, HSD11B, HSD11L, SDR26C1, HDL, HSD11

Target/Specificity

Human HSD11B1

Reconstitution & Storage

PBS, pH 7.0, 40% glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions

HSD11B1 / HSD11B Antibody (aa232-292) is for research use only and not for use in diagnostic or therapeutic procedures.

HSD11B1 / HSD11B Antibody (aa232-292) - Protein Information

Name HSD11B1 ([HGNC:5208](#))

Synonyms HSD11, HSD11L, SDR26C1

Function

href="http://www.uniprot.org/citations/21453287" target="_blank">>21453287, PubMed:>27927697, PubMed:>30902677). Participates in the corticosteroid receptor-mediated anti-inflammatory response, as well as metabolic and homeostatic processes (PubMed:>12414862, PubMed:>10497248, PubMed:>15152005, PubMed:>21453287). Plays a role in the secretion of aqueous humor in the eye, maintaining a normotensive, intraocular environment (PubMed:>11481269). Bidirectional in vitro, predominantly functions as a reductase in vivo, thereby increasing the concentration of active glucocorticoids (PubMed:>12414862, PubMed:>10497248, PubMed:>11481269, PubMed:>12460758). It has broad substrate specificity, besides glucocorticoids, it accepts other steroid and sterol substrates (PubMed:>15095019, PubMed:>15152005, PubMed:>17593962, PubMed:>21453287). Interconverts 7-oxo- and 7-hydroxy-neurosteroids such as 7-oxopregnенолон and 7 β -hydroxypregnенолон, 7-oxodehydroepiandrosterone (3 β -hydroxy-5-androstene-7,17-dione) and 7 β -hydroxydehydroepiandrosterone (3 β ,7 β -dihydroxyandrost-5-en-17-one), among others (PubMed:>17593962). Catalyzes the stereo-specific conversion of the major dietary oxysterol, 7-ketocholesterol (7-oxocholesterol), into the more polar 7 β -hydroxycholesterol metabolite (PubMed:>15095019, PubMed:>15152005). 7-oxocholesterol is one of the most important oxysterols, it participates in several events such as induction of apoptosis, accumulation in atherosclerotic lesions, lipid peroxidation, and induction of foam cell formation (PubMed:>15095019). Mediates the 7-oxo reduction of 7-oxolithocholate mainly to chenodeoxycholate, and to a lesser extent to ursodeoxycholate, both in its free form and when conjugated to glycine or taurine, providing a link between glucocorticoid activation and bile acid metabolism (PubMed:>21453287). Catalyzes the synthesis of 7 β -25-dihydroxycholesterol from 7-oxo-25-hydroxycholesterol in vitro, which acts as a ligand for the G-protein-coupled receptor (GPCR) Epstein-Barr virus-induced gene 2 (EBI2) and may thereby regulate immune cell migration (PubMed:>30902677).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type II membrane protein

Tissue Location

Widely expressed, highest expression in liver, lower in testis, ovary, lung, foreskin fibroblasts, and much lower in kidney (PubMed:1885595). Expressed in liver (at protein level) (PubMed:21453287). Expressed in the basal cells of the corneal epithelium and in the ciliary nonpigmented epithelium (both at mRNA and at protein level) (PubMed:11481269).

Volume

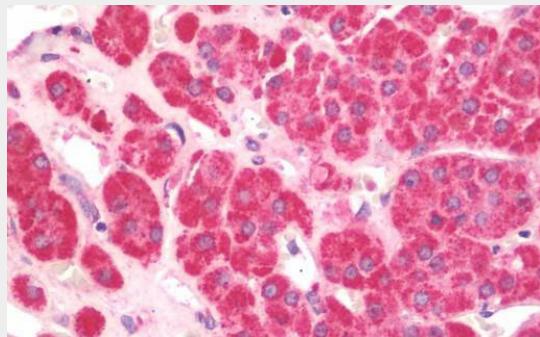
50 μ l

HSD11B1 / HSD11B Antibody (aa232-292) - Protocols

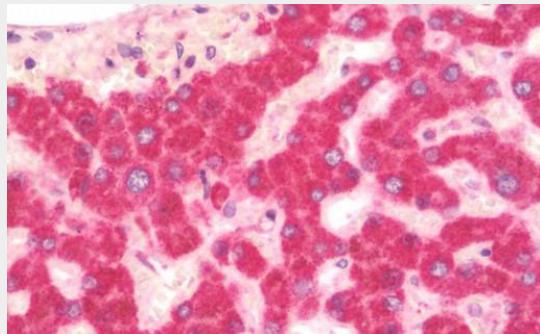
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

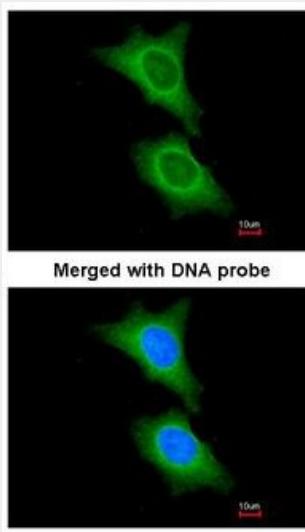
HSD11B1 / HSD11B Antibody (aa232-292) - Images



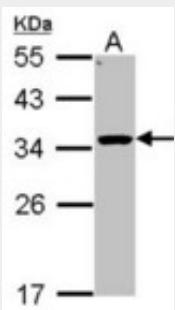
Anti-HSD11B1 / HSD11B antibody IHC staining of human adrenal.



Anti-HSD11B1 / HSD11B antibody IHC staining of human liver.



Immunofluorescence of paraformaldehyde-fixed HeLa using HSD11B1 antibody at 1:200 dilution.



Sample (30 ug of whole cell lysate). A: Hep G2 . 12% SDS PAGE. HSD11B1 antibody diluted at 1:1000.

HSD11B1 / HSD11B Antibody (aa232-292) - Background

Catalyzes reversibly the conversion of cortisol to the inactive metabolite cortisone. Catalyzes reversibly the conversion of 7-ketcholesterol to 7-beta-hydroxycholesterol. In intact cells, the reaction runs only in one direction, from 7- ketcholesterol to 7-beta-hydroxycholesterol (By similarity).

HSD11B1 / HSD11B Antibody (aa232-292) - References

- Tannin G.M.,et al.J. Biol. Chem. 266:16653-16658(1991).
Draper N.,et al.J. Clin. Endocrinol. Metab. 87:4984-4990(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.