ARG45150
anti-HSD11B2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HSD11B2
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	HSD11B2
Species	Human
Immunogen	Synthetic peptide corresponding to C-terminal region of human HSD11B2.
Conjugation	Un-conjugated
Alternate Names	HSD11B2; hydroxysteroid (11-beta) dehydrogenase 2; 11-beta-HSD; 11-DH2; Corticosteroid 11-beta-dehydrogenase isozyme 2; 11-beta-hydroxysteroid dehydrogenase type 2; 11-beta-hydroxysteroid dehydrogenase type II; HSD11K; AME; EC 1.1.1.-; 11-HSD type II; 11-beta-HSD type II; SDR9C3; AME1; HSD2; Short chain dehydrogenase/reductase family 9C member 3; NAD-dependent 11-beta-hydroxysteroid dehydrogenase; 11-beta-HSD2

Application Instructions

Application table

Application	Dilution
IHC-Fr	2-5 µg/ml
IHC-P	0.5-1 µg/ml
WB	0.1-0.5 µg/ml

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

Observed Size: 43 kDa

Properties

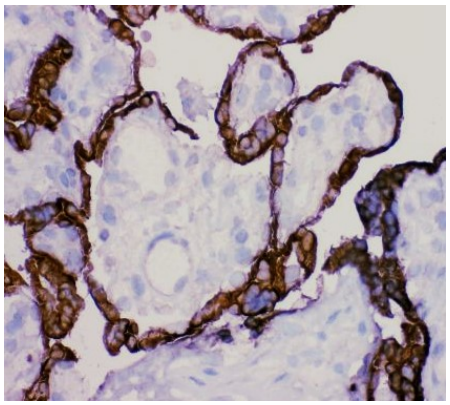
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml

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.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

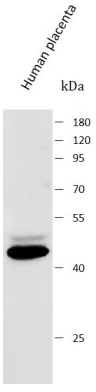
Gene Symbol	HSD11B2
Gene Full Name	hydroxysteroid (11-beta) dehydrogenase 2
Background	There are at least two isozymes of the corticosteroid 11-beta-dehydrogenase, a microsomal enzyme complex responsible for the interconversion of cortisol and cortisone. The type I isozyme has both 11-beta-dehydrogenase (cortisol to cortisone) and 11-oxoreductase (cortisone to cortisol) activities. The type II isozyme, encoded by this gene, has only 11-beta-dehydrogenase activity. In aldosterone-selective epithelial tissues such as the kidney, the type II isozyme catalyzes the glucocorticoid cortisol to the inactive metabolite cortisone, thus preventing illicit activation of the mineralocorticoid receptor. In tissues that do not express the mineralocorticoid receptor, such as the placenta and testis, it protects cells from the growth-inhibiting and/or pro-apoptotic effects of cortisol, particularly during embryonic development. Mutations in this gene cause the syndrome of apparent mineralocorticoid excess and hypertension. [provided by RefSeq, Feb 2010]
Function	Catalyzes the conversion of cortisol to the inactive metabolite cortisone. Modulates intracellular glucocorticoid levels, thus protecting the nonselective mineralocorticoid receptor from occupation by glucocorticoids. [UniProt]
Calculated Mw	44 kDa
Cellular Localization	Microsome; Endoplasmic reticulum. [UniProt]

Images



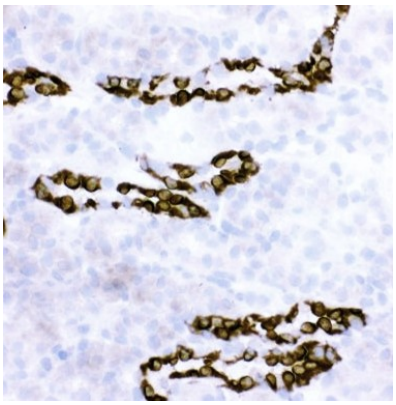
ARG45150 anti-HSD11B2 antibody IHC-P image

Immunohistochemistry: Human placenta stained with ARG45150 anti-HSD11B2 antibody at 5 µg/ml dilution.



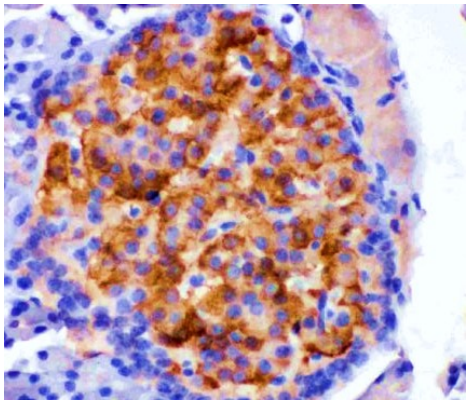
ARG45150 anti-HSD11B2 antibody WB image

Western blot: Human placenta stained with ARG45150 anti-HSD11B2 antibody at 0.5 µg/ml dilution.



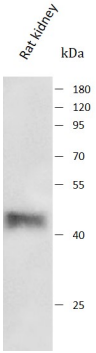
ARG45150 anti-HSD11B2 antibody IHC-Fr image

Immunohistochemistry: Frozen Rat kidney stained with ARG45150 anti-HSD11B2 antibody at 2 µg/ml dilution.



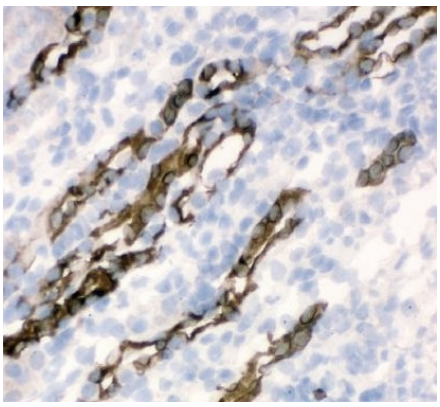
ARG45150 anti-HSD11B2 antibody IHC-P image

Immunohistochemistry: Rat Pancreas stained with ARG45150 anti-HSD11B2 antibody at 1 µg/ml dilution.



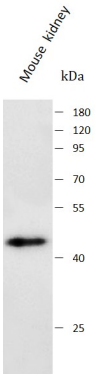
ARG45150 anti-HSD11B2 antibody WB image

Western blot: Rat kidney stained with ARG45150 anti-HSD11B2 antibody at 0.5 µg/ml dilution.



ARG45150 anti-HSD11B2 antibody IHC-Fr image

Immunohistochemistry: Frozen Mouse kidney stained with ARG45150 anti-HSD11B2 antibody at 2 µg/ml dilution.



ARG45150 anti-HSD11B2 antibody WB image

Western blot: Mouse kidney stained with ARG45150 anti-HSD11B2 antibody at 0.5 µg/ml dilution.