HSD11B2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HSD11B2, Polyclonal Antibody
Full Product Name	HSD11B2, ID (HSD11B2, HSD11K, Corticosteroid 11-beta-dehydrogenase isozyme 2, 11-beta-hydroxysteroid dehydrogenase type 2, 11-beta-hydroxysteroid dehydrogenase type II, NAD-dependent 11-beta-hydroxysteroid dehydrogenase) (MaxLight 405)
Product Gene Name	anti-HSD11B2 antibody
Product Synonym Names	HSD11B2; HSD11K; Corticosteroid 11-beta-dehydrogenase isozyme 2; 11-beta-hydroxysteroid dehydrogenase type 2; 11-beta-hydroxysteroid dehydrogenase type II; NAD-dependent 11-beta-hydroxysteroid dehydrogenase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	44,127 Da
OMIM	218030
3D Structure	ModBase 3D Structure for P80365
Immunogen	HSD11B2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 284~314 amino acids from the Central region of human HSD11B2.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-HSD11B2 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-HSD11B2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-HSD11B2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-HSD11B2 antibody	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.
Product References and Citations for anti-HSD11B2 antibody	Li, J., et al. Breast Cancer Res. 12 (2), R19 (2010). Ni, X.T., et al. Placenta 30(12):1023-1028(2009). Mericq, V., et al. Eur. J. Endocrinol. 161(3):419-425(2009). Stark, M.J., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 297 (2), R510-R514 (2009). Lepenies, J., et al. Clin. Exp. Hypertens. 31(4):376-379(2009).
Other Notes	Small volumes of anti-HSD11B2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HSD11B2 purchase	MBS6308446 is an antibody targeting HSD11B2. Also known as HSD11B2, ID (HSD11B2, HSD11K, Corticosteroid 11-beta-dehydrogenase isozyme 2, 11-beta-hydroxysteroid dehydrogenase type 2, 11-beta-hydroxysteroid dehydrogenase type II, NAD-dependent 11-beta-hydroxysteroid dehydrogenase) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSD11B2. It may not necessarily be applicable to this product.

NCBI GI #	119392083
NCBI GeneID	3291
NCBI Accession #	NP_000187.3
UniProt Primary Accession #	P80365
UniProt Secondary Accession #	Q13194; Q6P2G9; Q8N439; Q96QN8; Q9UC50; Q9UC51; Q9UCW5; Q9UCW6; Q9UCW7; A7LB28; C5HTY7
UniProt Related Accession #	P80365
GenBank Nucleotide #	NM_000196.3
NCBI Official Full Name	corticosteroid 11-beta-dehydrogenase isozyme 2
NCBI Official Synonym Full Names	hydroxysteroid (11-beta) dehydrogenase 2
NCBI Official Symbol	HSD11B2
NCBI Official Synonym Symbols	AME; AME1; HSD2; HSD11K; SDR9C3
UniProt Protein Name	Corticosteroid 11-beta-dehydrogenase isozyme 2
UniProt Synonym Protein Names	11-beta-hydroxysteroid dehydrogenase type 2; 11-DH2; 11-beta-HSD2; 11-beta-hydroxysteroid dehydrogenase type II; 11-HSD type II; 11-beta-HSD type II; NAD-dependent 11-beta-hydroxysteroid dehydrogenase; 11-beta-HSD; Short chain dehydrogenase/reductase family 9C member 3
Protein Family	Corticosteroid 11-beta-dehydrogenase isozyme
UniProt Gene Name	HSD11B2
UniProt Synonym Gene Names	; 11-DH2; 11-beta-HSD2; 11-HSD type II; 11-beta-HSD type II; 11-beta-HSD
UniProt Entry Name	DHI2_HUMAN
NCBI Protein Information	corticosteroid 11-beta-dehydrogenase isozyme 2

UniProt Comments for HSD11B2	HSD11B2: Catalyzes the conversion of cortisol to the inactive metabolite cortisone. Modulates intracellular glucocorticoid levels, thus protecting the nonselective mineralocorticoid receptor from occupation by glucocorticoids. Defects in HSD11B2 are the cause of apparent mineralocorticoid excess (AME). An autosomal recessive form of low-renin hypertension. It is usually diagnosed within the first years of life and is characterized by polyuria and polydipsia, failure to thrive, hypernatremia, severe hypertension with low renin and aldosterone levels, profound hypokalemia with metabolic alkalosis, and most often nephrocalcinosis. Belongs to the short-chain dehydrogenases/reductases (SDR) family. Protein type: EC 1.1.1.-; Lipid Metabolism - androgen and estrogen; Oxidoreductase; Lipid Metabolism - C21-steroid hormone Chromosomal Location of Human Ortholog: 16q22 Cellular Component: endoplasmic reticulum membrane Molecular Function: 11-beta-hydroxysteroid dehydrogenase activity; NAD binding; steroid binding Biological Process: aldosterone mediated regulation of blood volume; female pregnancy; glucocorticoid biosynthetic process; response to drug; response to food; response to glucocorticoid stimulus; response to hypoxia; response to insulin stimulus Disease: Apparent Mineralocorticoid Excess
Research Articles on HSD11B2	**1.** No interaction was found between HSD11B2 and exposure during pregnancy, but individuals with the A allele of rs5479 had an increased risk of schizophrenia after exposure at age 3-9 years
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