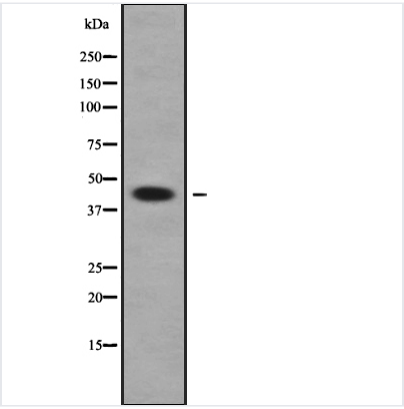
HSD11B2 Antibody

PRODUCT OVERVIEW

Product Name	HSD11B2, Antibody
Full Product Name	HSD11B2 Antibody
Product Gene Name	anti-HSD11B2 antibody
Molecular Weight	44,127 Da
OMIM	218030
3D Structure	ModBase 3D Structure for P80365
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-HSD11B2 antibody	MBS8518429 is an antibody targeting HSD11B2. Also known as HSD11B2 Antibody.
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.



Western Blot (WB) of anti-HSD11B2 antibody
Western blot analysis HSD11B2 using COLO205 whole cell lysates

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
NCBI Protein Information	corticosteroid 11-beta-dehydrogenase isozyme 2
NCBI Summary for HSD11B2	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]
UniProt Comments for 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.
Research Articles on HSD11B2	**1.** Six sequence variations were observed. Four mutations were indicated in the coding region of HSD11B2 and the other two in 3'-UTR. Two SNPs: c.468C > A and c.534G > A were found to be in total disequilibrium. High variability in HSD11B2 sequence was indicated in the study population, but the relevance of observed SNPs to gestational hypertension or pre-eclampsia development was not confirmed.
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