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Product datasheet for AP52107PU-N

HSD11B2 (Center) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	This antibody is suitable for Western Blotting, Flow cytometry and Paraffin sections. The suggested dilution is: ELISA: 1:1;000 Western blotting: 1:100~500 Immunohistochemistry: 1:50~100 Flow cytometry: 1:10~50
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 284~314 amino acids from the Central region of human HSD11B2.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. State: Aff - Purified State: Liquid
Concentration:	lot specific
Purification:	This antibody is purified through a protein A column; followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Gene Name:	hydroxysteroid (11-beta) dehydrogenase 2
Database Link:	Entrez Gene 3291 Human P80365

View online »

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.

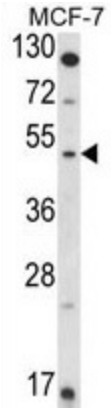
Synonyms: 11-beta-hydroxysteroid dehydrogenase 2, HSD11K, 11-DH2

Note: **Molecular Weight:** 44127 Da

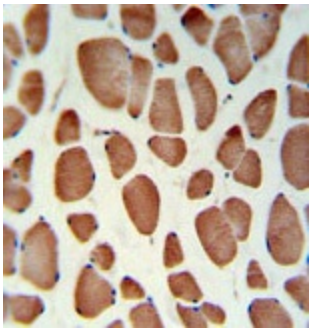
Protein Families: Druggable Genome

Protein Pathways: Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways

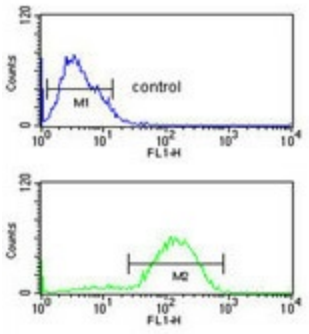
Product images:



Western blot analysis of HSD11B2 Antibody in MCF-7 cell line lysates (35ug/lane). HSD11B2 (arrow) was detected using the purified Pab.



HSD11B2 Antibody IHC analysis in formalin fixed and paraffin embedded skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.



HSD11B2 Antibody flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.