

Datasheet for ABIN950176

anti-HSD11B2 antibody (Middle Region)**3** Images[Go to Product page](#)

Overview

Quantity:	0.4 mL
Target:	HSD11B2
Binding Specificity:	AA 284-314, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSD11B2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide between 284~314 amino acids from the Central region of human HSD11B2.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Species reactivity (tested):Human
Purification:	This antibody is purified through a protein A column; followed by peptide affinity purification.

Target Details

Target:	HSD11B2
Alternative Name:	11-beta HSD2 / HSD11B2 (HSD11B2 Products)

Target Details

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-DH2, 11-beta-hydroxysteroid dehydrogenase 2, Corticosteroid 11-beta-dehydrogenase isozyme 2, HSD11K, NAD-dependent 11-beta-hydroxysteroid dehydrogenase

Gene ID: 3291

NCBI Accession: [NP_000187](#)

Pathways: [Steroid Hormone Biosynthesis](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

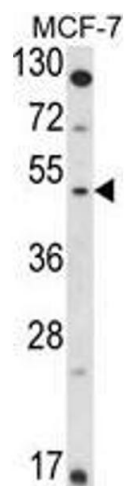
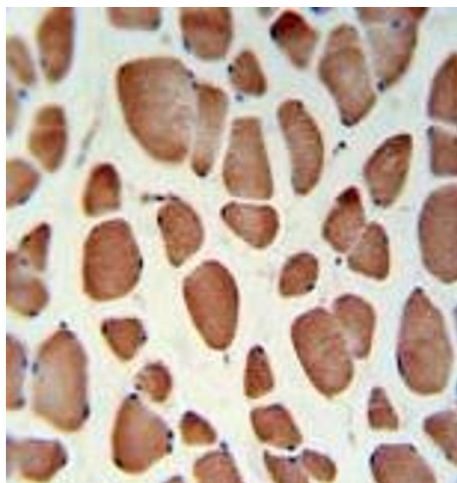
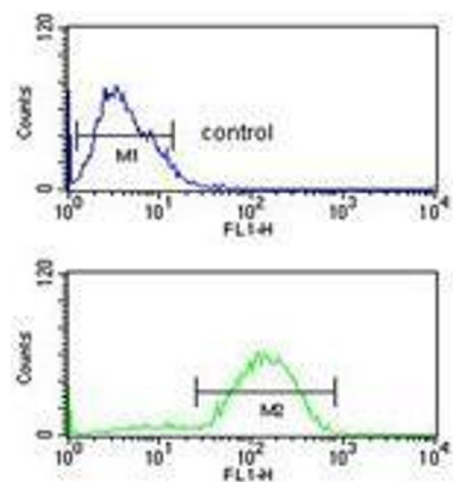
Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 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.



Flow Cytometry

Image 1. HSD11B2 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.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. HSD11B2IHC analysis in formalin fixed and paraffin embedded skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.

Western Blotting

Image 3. Western blot analysis of HSD11B2 in MCF-7 cell line lysates (35ug/lane). HSD11B2 (arrow) was detected using the purified Pab.