

anti-Mouse Cytochrome P450 Aldosterone Synthase Monoclonal Antibody | anti-CYP11B2 antibody

Cytochrome P450 Aldosterone Synthase (CYP11b2)

CATALOG #	REACTIVITY	APPLICATIONS
AAA14663	Mouse	ELISA, Western Blot, Immunohistochemistry, Immunocytochemistry

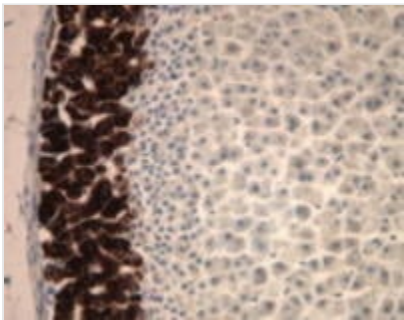
PRODUCT SYNONYMS

Cytochrome P450 Aldosterone Synthase; Monoclonal Antibody; Cytochrome P450 Aldosterone Synthase (CYP11b2); Anti -Cytochrome P450 Aldosterone Synthase (CYP11b2); anti-CYP11B2 antibody

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2Q2321
Specificity	Recognizes rat cytochrome p450 aldosterone synthase. Species Crossreactivity : Mouse.
Purity/Purification	Supernatant
Form/Format	Supplied as a liquid, 1 mg/ml sodium azide, 50% glycerol.
Applicable Applications for anti-CYP11B2 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Application Notes	Dilution: Western Blot: A band is observed at ~48kD in adrenal zona glomerulosa mitochondrial preparations. The enzyme is expressed best in adrenal zona glomerulosa tissues, expression in kidney is virtually undetectable. Immunohistochemistry: 1:50-1:200 (ABC, enzymatic detection). Works well with STF fixed tissues that are paraffin embedded. Also works with formalin fixed paraffin embedded tissues but at much lower working dilutions. Recommended counterstain is Gill's Hematoxylin. Immunocytochemistry: 1:20-1:200 on acetone fixed cells. Optimal dilutions to be determined by researcher. Other applications not yet tested.
Immunogen	Rat Aldo-1-MAP aa175-192, KVRQNARGSLTMDVQQL-MAP.
Recommended Positive Control	Adrenal zona glomerulosa of rats on a 7-14 day low sodium diet where the gene is overexpressed.
Preparation and Storage	May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for up to 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical staining of Cytochrome P450 aldosterone synthase in low sodium rat renal tissue using AAA14663.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP11B2 antibody	Aldosterone synthase (or 18-hydroxylase) is a steroid hydroxylase cytochrome P450 oxidase enzyme involved in the generation of aldosterone. This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the mitochondrial inner membrane. The enzyme has steroid 18-hydroxylase activity to synthesize aldosterone and 18-oxocortisol as well as steroid 11 beta-hydroxylase activity.
Product Categories/Family for anti-CYP11B2 antibody	Antibodies ; Abs to Enzymes ; Cytochrome

NCBI AND UNIPROT INFORMATION

NCBI GI #	119829183
NCBI GeneID	1585
NCBI Accession #	NP_000489.3
NCBI GenBank Nucleotide #	NM_000498.3
UniProt Accession #	P30099 ; Q16726 ; B0ZBE4 ; P19099
NCBI Official Full Name	cytochrome P450 11B2, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450, family 11, subfamily B, polypeptide 2
NCBI Official Symbol	CYP11B2
NCBI Official Synonym Symbols	CPN2; ALDOS; CYP11B; CYP11BL; CYPXIB2; P450C18; P-450C18; P450aldo
NCBI Protein Information	cytochrome P450 11B2, mitochondrial; cytochrome P-450C18; aldosterone synthase; cytochrome P-450Aldo; steroid 11-beta-monooxygenase; steroid 11-beta/18-hydroxylase; aldosterone-synthesizing enzyme; steroid 18-hydroxylase, aldosterone synthase, P450C18, P450aldo; mitochondrial cytochrome P450, family 11, subfamily B, polypeptide 2; cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 2
UniProt Protein Name	Cytochrome P450 11B2, mitochondrial
UniProt Gene Name	CYP11B2
UniProt Synonym Gene Names	ALDOS
UniProt Entry Name	C11B2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

