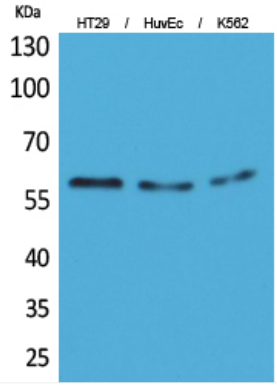
CYP11B1/2 Polyclonal Antibody

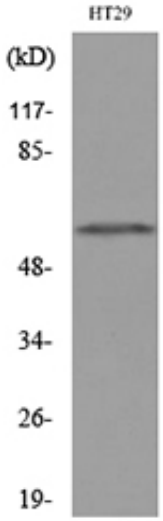
Catalog No	BYab-02861
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Gene Name	CYP11B1/CYP11B2
Protein Name	Cytochrome P450 11B1 mitochondrial/Cytochrome P450 11B2 mitochondrial
Immunogen	The antiserum was produced against synthesized peptide derived from the N-terminal region of human CYP11B1/2. AA range:61-110
Specificity	CYP11B1/2 Polyclonal Antibody detects endogenous levels of CYP11B1/2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CYP11B1; S11BH; Cytochrome P450 11B1, mitochondrial; CYPXIB1; Cytochrome P-450c11; Cytochrome P450C11; Steroid 11-beta-hydroxylase; CYP11B2;Cytochrome P450 11B2, mitochondrial; Aldosterone synthase; ALDOS; Aldosterone-synthesizing enzyme; CYPXIB2; Cytochrome P-450Aldo; Cytochrome P-450C18; Steroid 18-hydroxylase
Observed Band	58kD
Cell Pathway	Mitochondrion inner membrane ; Peripheral membrane protein .
Tissue Specificity	Adrenal gland,PCR rescued clones,Peripheral blood,
Function	catalytic activity:A steroid + reduced adrenal ferredoxin + O(2) = an 11-beta-hydroxysteroid + oxidized adrenal ferredoxin + H(2)O.,cofactor:Heme group.,disease:An anti-Lepore-type fusion of the CYP11B1 and CYP11B2 genes is a cause of glucocorticoid-remediable aldosteronism (GRA) [MIM:103900].,disease:Defects in CYP11B1 are the cause of adrenal hyperplasia

	type 4 (AH4) [MIM:202010]. AH4 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: "salt wasting" (SW, the most severe type), "simple virilizing" (SV, less severely affected patients), with normal aldosterone biosynthesis, "
Background	cytochrome P450 family 11 subfamily B member 1(CYP11B1) Homo sapiens 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 and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of HT29, HuvEc, K562 cells using CYP11B1/2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysate from HT29 cells, using CYP11B1/2 Antibody.