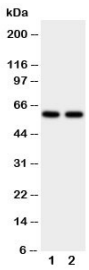
CYP11A1 Antibody (R30784)

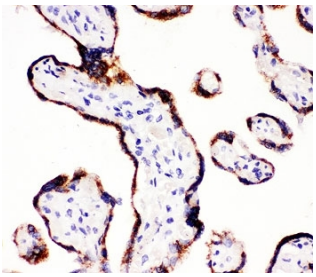
Catalog No.	Formulation	Size
R30784	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

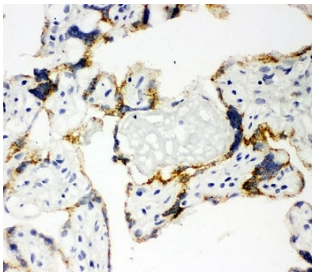
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P05108
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml IHC (Frozen): 0.5-1ug/ml
Limitations	This CYP11A1 antibody is available for research use only.



Western blot testing of CYP11A1 antibody and human placenta tissue lysate. Expected molecular weight: 50-60 kDa.



IHC-P: CYP11A1 antibody testing of human placenta tissue



IHC-F: human placenta tissue

Description

Cytochrome p450, family 11, subfamily A, polypeptide 1), also called P450SCC, P450C11A1 or CYP11A, is a mitochondrial enzyme associated with the conversion of cholesterol to pregnenolone. CYP11A1 is a member of the cytochrome P450 superfamily of enzymes. The gene is mapped on 15q24.1. Expression of the CYP11A1 gene may play a role in skin physiology and pathology and that cutaneous proopiomelanocortin activity may be autoregulated by a feedback mechanism involving glucocorticoids synthesized locally by Slominski et al. Using in vitro studies, CYP11A1 catalyzed the side-chain cleavage of 7-dehydrocholesterol to form 7-dehydropregnenolone. In addition, it catalyzed the metabolism of biologically inert vitamin D3, which is formed from 7-dehydrocholesterol, to form 2 hydroxylated products, 20-hydroxyvitamin D3 and 20, 22-dihydroxyvitamin D3. Mutations in the gene cause congenital adrenal insufficiency with partial or complete 46, XY sex reversal.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CYP11A1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human CYP11A1 (ISFTFWPFNQEATQQ) was used as the immunogen for this CYP11A1 antibody.

Storage

After reconstitution, the CYP11A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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