

## CYP11A1 Polyclonal Antibody

Catalog number: 13363-1-AP

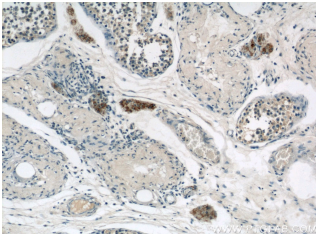
Size: 20 µg/150 µl

Source: Rabbit

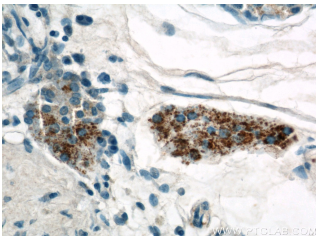
Isotype: IgG

Synonyms:

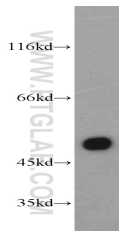
CYP11A1; Cholesterol desmolase, CYP11A, CYP11A1, CYPXIA1, Cytochrome P450 11A1, Cytochrome P450(scc), P450SCC



Immunohistochemical of paraffin-embedded human testis using 13363-1-AP(CYP11A1 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human testis using 13363-1-AP(CYP11A1 antibody) at dilution of 1:50 (under 40x lens)



human placenta tissue were subjected to SDS PAGE followed by western blot with 13363-1-AP(CYP11A1 antibody) at dilution of 1:800

### Background

CYP11A1 is the first enzyme of all steroidogenic pathways, its elimination results in syndromes of steroid deficiency, including electrolyte imbalance, aberrant gene regulation, and suppression of male sex organ development(PMID: 12145347). It is also known as cytochrome P450C11A1, cytochrome P450scc and cytochrome P450, subfamily XIA. Expression of CYP11A1 has been a useful tool for monitoring the differentiation state of cells from various endocrine tissues. Identification of CYP11A1 expression by 13363-1-AP detected a ~45kd band in human placenta, with respect to the reported band at 49-52kd by Roby, et al and Durkee, et al. The murine 32-kDa isoform of Cyp11a1 is not produced by omission of the first ATG-containing exon (as is the case for human CYP11A1) but perhaps by alternative translational initiation(PMID:19342447).

### Applications

Tested applications:	ELISA, WB, IHC
Cited applications:	IHC, WB
Species specificity:	Human, Rat; other species not tested.
Cited species:	Mouse
Calculated CYP11A1 MW:	521aa,60 kDa
Observed CYP11A1 MW:	49-52 kDa
Positive WB detected in	Human placenta tissue, HeLa cells
Positive IHC detected in	Human testis tissue, human placenta tissue
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag4182
GenBank accession number:	BC032329
Gene ID (NCBI):	1583
Full name:	Cytochrome P450, family 11, subfamily A, polypeptide 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.