

For Research Use Only

CYP11A1 Polyclonal antibody

Catalog Number: 13363-1-AP **20 Publications**



Basic Information

Catalog Number: 13363-1-AP	GenBank Accession Number: BC032329	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1583	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:100-1:400
Source: Rabbit	Full Name: cytochrome P450, family 11, subfamily A, polypeptide 1	
Isotype: IgG	Calculated MW: 521 aa, 60 kDa	
Immunogen Catalog Number: AG4182	Observed MW: 49-52 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, rat, mouse

Cited Species:

human, mouse, pig, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human placenta tissue, HeLa cells, mouse ovary tissue, mouse testis tissue, rat testis tissue

IHC : human placenta tissue, human testis tissue

Background Information

CYP11A1 is also known as cytochrome P450C11A1, cytochrome P450scc and cytochrome P450, subfamily XIA. It 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). 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Shumin Li	34487832	J Steroid Biochem Mol Biol	WB
Junfeng Qi	33073540	Birth Defects Res	WB
Ling Zeng	34610361	Free Radic Biol Med	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

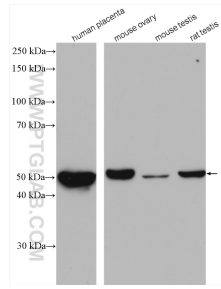
For technical support and original validation data for this product please contact:

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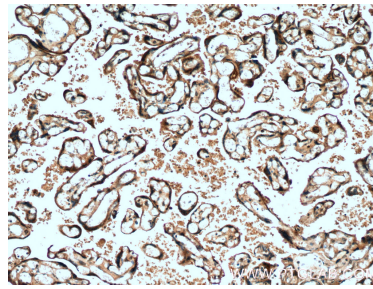
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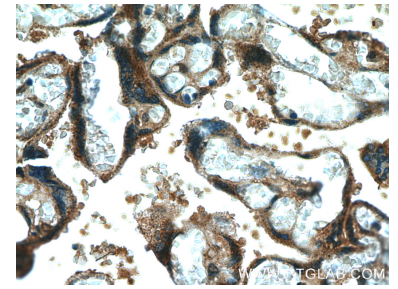
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13363-1-AP (CYP11A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 13363-1-AP (CYP11A1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 13363-1-AP (CYP11A1 Antibody) at dilution of 1:200 (under 40x lens).