

For Research Use Only

# CYP19A1 Polyclonal antibody

Catalog Number: 16554-1-AP

Featured Product

18 Publications



## Basic Information

Catalog Number:

16554-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9765

GenBank Accession Number:

BC022896

GeneID (NCBI):

1588

UNIPROT ID:

P11511

Full Name:

cytochrome P450, family 19, subfamily A, polypeptide 1

Calculated MW:

20 kDa, 25 kDa, 58 kDa

Observed MW:

49-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, goat, geese

**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 : A2780 cells, human placenta tissue

IHC : human placenta tissue, rat brain tissue, human kidney tissue, human skeletal muscle tissue, human gliomas tissue, human testis tissue, human spleen tissue, human lung tissue, human ovary tissue

IF-P : human placenta tissue,

IF/ICC : HepG2 cells,

## Background Information

CYP19A1(Cytochrome P450 19A1) is also named as ARO1(aromatase), CYAR, CYP19, estrogen synthase and belongs to the cytochrome P450 family. It is a terminal enzyme which transforms irreversibly androgens into estrogens and it is present in the endoplasmic reticulum of numerous tissues(PMID:16406261). The gene encodes a protein with the molecular weight between 46 kDa and 69 kDa(PMID:8129748) and the protein can be glycosylated, but the level of glycosylation does not seem to be essential for CYP19A1 activity(PMID:12606587). Brain aromatase may be neuroprotective by increasing the local estrogen levels in injured neurons so that genetic variation in the brain aromatase gene may modify the risk for AD(PMID:16767510).

## Notable Publications

Author	Pubmed ID	Journal	Application
Huidan Wang	26358501	Sci Rep	WB
Ruiming Fan	32875818	Br Poult Sci	WB
Yan Peng	33109277	Biol Res	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:

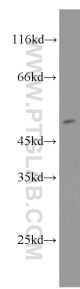
T: 4006900926

E: Proteintech-CN@ptglab.com

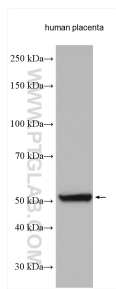
W: ptgcn.com

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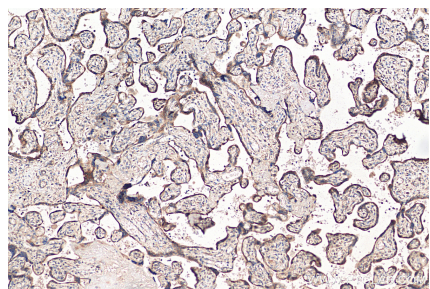
Selected Validation Data



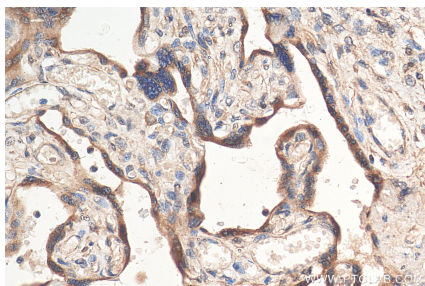
A2780 cells were subjected to SDS PAGE followed by western blot with 16554-1-AP (CYP19A1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



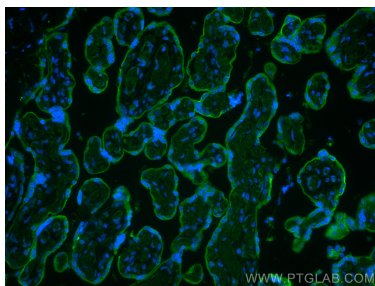
human placenta tissue were subjected to SDS PAGE followed by western blot with 16554-1-AP (CYP19A1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



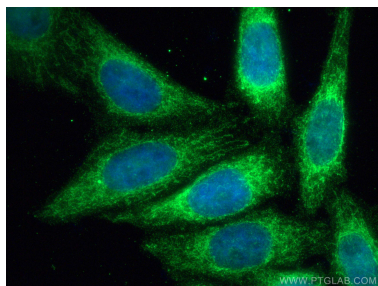
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16554-1-AP (CYP19A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16554-1-AP (CYP19A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CYP19A1 antibody (16554-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CYP19A1 antibody (16554-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).