CYP19A1 Polyclonal antibody

Catalog Number: 16554-1-AP

Basic Information

Catalog Number: 
16554-1-AP

Size: 150μL
Concentration: 220 μg/ml by Bradford method using BSA as the standard

Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG9765

GenBank Accession Number: BCO22896
GeneID (NCBI): 1588
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 1:100-1:400

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
geese, human, mouse, rat

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

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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huidan Wang</td>
<td>26358501</td>
<td>Sci Rep</td>
<td>WB</td>
</tr>
<tr>
<td>Ruiming Fan</td>
<td>32875818</td>
<td>Br Poult Sci</td>
<td>WB</td>
</tr>
<tr>
<td>Jiansha Li</td>
<td>26478095</td>
<td>Sci Rep</td>
<td>WB</td>
</tr>
</tbody>
</table>

Storage

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

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintechn@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
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.


Immunohistochemical analysis of paraffin-embedded human gliomas 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).