

Rabbit CYP19A1 Polyclonal Antibody | anti-CYP19A1 antibody

CYP19A1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326641	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

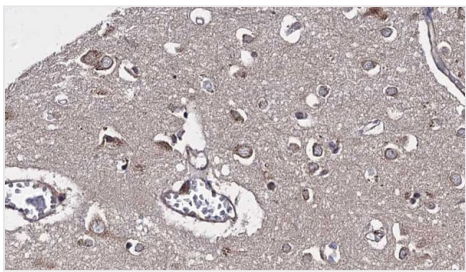
PRODUCT SYNONYMS

CYP19A1; Polyclonal Antibody; CYP19A1 Antibody; ARO; ARO1; Aromatase; CP19A_HUMAN; CPV1; CYAR; CYP19; Cyp19a1; CYPXIX; Cytochrome P-450AROM; Cytochrome P450 19A1; Cytochrome P450; family 19; subfamily A; polypeptide 1; subfamily XIX (aromatization of androgens); Estrogen synthase; Estrogen synthetase; Flavoprotein linked monooxygenase; MGC104309; Microsomal monooxygenase; OTTHUMP00000162543; OTTHUMP00000198350; P 450AROM; anti-CYP19A1 antibody

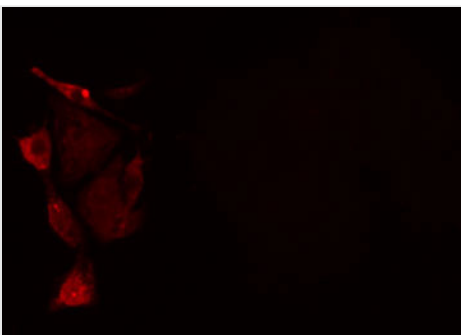
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CYP19A1 antibody detects endogenous levels of total CYP19A1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	503
Applicable Applications for anti-CYP19A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CYP19A1
Subcellular Location	Membrane.
Tissue Specificity	Widely expressed, including in adult and fetal brain, placenta, skin fibroblasts, adipose tissue and gonads.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

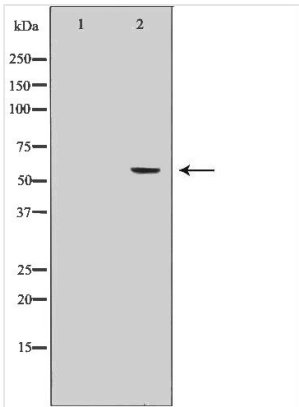
IMAGES



IHC (Immunohistochemisry)
AAA326641 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA326641 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts of Jurkat, using CYP19A1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP19A1 antibody	Description: 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). This antibody is specific to CYP19A1. Function: Catalyzes the formation of aromatic C18 estrogens from C19 androgens. Post-translational Modifications: Phosphorylated in vitro by PKA and PKG/PRKG1. These phosphorylations inhibit the catalytic activity as measured by estrone synthesis from androstenedione (36% decrease for PKA and 30% for PKG/PRKG1). Similarity: Belongs to the cytochrome P450 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13904858
NCBI GeneID	1588
NCBI Accession #	NP_000094.2
NCBI GenBank Nucleotide #	NM_000103.3

UniProt Accession #	P11511; Q16731; Q3B764; Q58FA0; Q8IYJ7
Molecular Weight	Observed: 58 kDa Predicted: 58 kDa
NCBI Official Full Name	aromatase
NCBI Official Synonym Full Names	cytochrome P450 family 19 subfamily A member 1
NCBI Official Symbol	CYP19A1
NCBI Official Synonym Symbols	ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM
NCBI Protein Information	aromatase
UniProt Protein Name	Aromatase
UniProt Gene Name	CYP19A1
UniProt Synonym Gene Names	ARO1; CYAR; CYP19

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyp19a1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326641>