

ARG41572 anti-CYP19A1 / Aromatase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CYP19A1 / Aromatase
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CYP19A1 / Aromatase
Species	Human
Immunogen	Recombinant protein corresponding to Y241-H503 of Human CYP19A1 / Aromatase.
Conjugation	Un-conjugated
Alternate Names	ARO1; CPV1; CYAR; Aromatase; Cytochrome P450 19A1; CYP19; Cytochrome P-450AROM; P-450AROM; Estrogen synthase; EC 1.14.14.14; CYPXIX; ARO

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 58 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

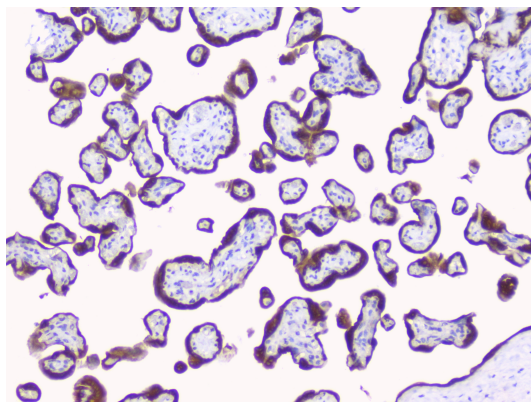
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

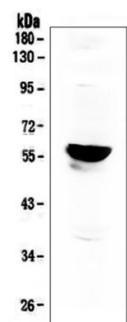
Gene Symbol	CYP19A1
Gene Full Name	cytochrome P450, family 19, subfamily A, polypeptide 1
Background	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and catalyzes the last steps of estrogen biosynthesis. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
Function	Catalyzes the formation of aromatic C18 estrogens from C19 androgens. [UniProt]
Calculated Mw	58 kDa
PTM	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). [UniProt]
Cellular Localization	Membrane; Peripheral membrane protein. [UniProt]

Images



ARG41572 anti-CYP19A1 / Aromatase antibody IHC-P image

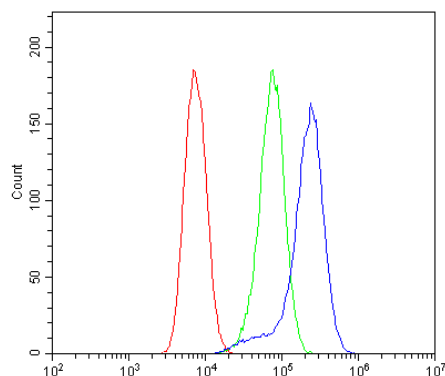
Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41572 anti-CYP19A1 / Aromatase antibody at 1 µg/ml dilution, overnight at 4°C.



Human placenta

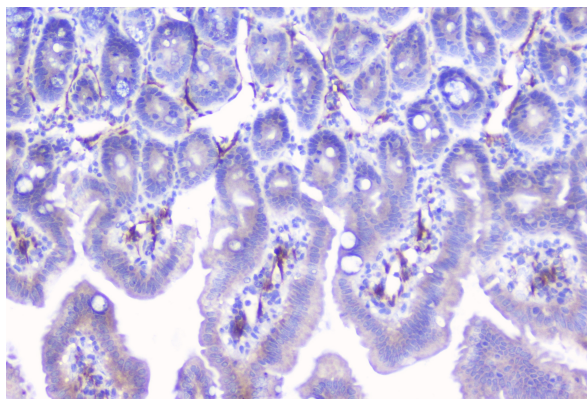
ARG41572 anti-CYP19A1 / Aromatase antibody WB image

Western blot: 50 µg of sample under reducing conditions. Human placenta lysate stained with ARG41572 anti-CYP19A1 / Aromatase antibody at 0.5 µg/ml dilution, overnight at 4°C.



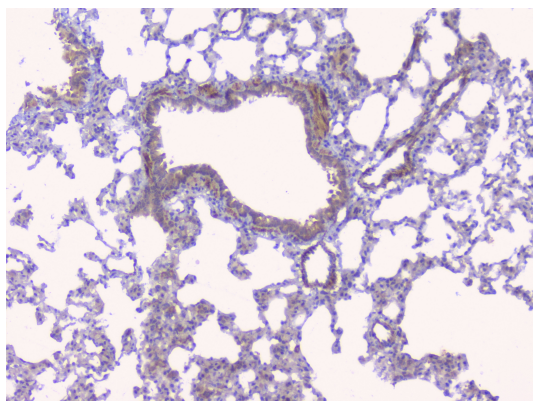
ARG41572 anti-CYP19A1 / Aromatase antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal Goat serum and then stained with ARG41572 anti-CYP19A1 / Aromatase antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



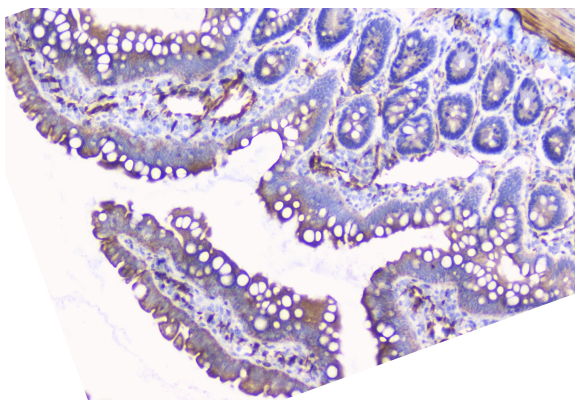
ARG41572 anti-CYP19A1 / Aromatase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse small intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41572 anti-CYP19A1 / Aromatase antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG41572 anti-CYP19A1 / Aromatase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat lung tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41572 anti-CYP19A1 / Aromatase antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG41572 anti-CYP19A1 / Aromatase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat small intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41572 anti-CYP19A1 / Aromatase antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.