

ARG64444 anti-CYP19A1 / Aromatase antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes CYP19A1 / Aromatase
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise both reported isoforms (NP_000094.2 and NP_112503.1), which are identical
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	CYP19A1 / Aromatase
Species	Human
Immunogen	C-HDLSLHPDETKN
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
	IHC-P	4 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
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

Database links

[GeneID: 1588 Human](#)

[GeneID: 25147 Human](#)

[Swiss-port # P11511 Human](#)

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, three successive hydroxylations of the A ring of androgens. 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. The gene expresses two transcript variants. [provided by RefSeq, Jul 2008]

Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Metabolism antibody; Neuroscience antibody

Calculated Mw

58 kDa

PTM

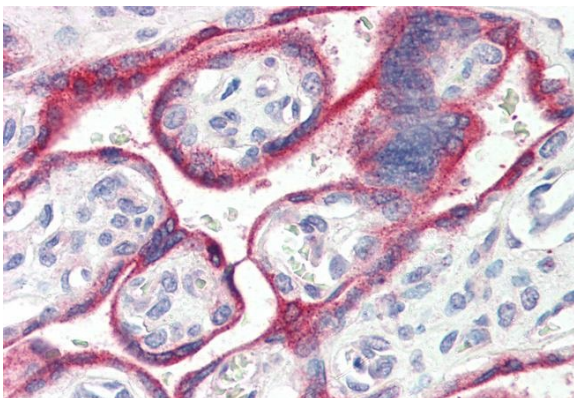
Phosphorylated in vitro by PKA and PKG/PRKG1. These phosphorylations inhibit the catalytic activity as measured by estrone synthesis from androstenedione (36% decrease for PKA and 30% for PKG/PRKG1).

Images



ARG64444 anti-CYP19A1 / Aromatase antibody WB image

Western blot: Human Placenta lysate (35 µg protein in RIPA buffer) stained with ARG64444 anti-CYP19A1 / Aromatase antibody at 0.1 µg/ml dilution.



ARG64444 anti-CYP19A1 / Aromatase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64444 anti-CYP19A1 / Aromatase antibody at 4 µg/ml dilution followed by AP-staining.