

ARG41532 anti-CYP19A1 / Aromatase antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CYP19A1 / Aromatase
Tested Reactivity	Hu, Rat
Tested Application	IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CYP19A1 / Aromatase
Species	Human
Immunogen	Synthetic peptide 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
	IP	1:50
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat brain	
Observed Size	~ 57 kDa	

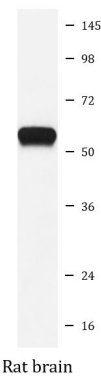
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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



ARG41532 anti-CYP19A1 / Aromatase antibody WB image

Western blot: Rat brain lysate stained with ARG41532 anti-CYP19A1 / Aromatase antibody.