产品名称：Aromatase (4R11) Rabbit Monoclonal Antibody
产品货号：AMRe07154

产品概述（Summary）

产品名称（Production Name）	Aromatase (4R11) Rabbit Monoclonal Antibody
描述（Description）	Recombinant rabbit monoclonal antibody
宿主（Host）	Rabbit
应用（Application）	WB,IP
种属反应性（Reactivity）	Human,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Monoclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	CYP19A1
别名（Alternative Names）	Aromatase; CYPXIX; Cytochrome P-450AROM; Cytochrome P450 19A1; Estrogen synthase; CYP19A1; ARO1; CYAR; CYP19;
基因 ID（Gene ID）	1588.0
蛋白 ID（SwissProt ID）	P11511.A synthetic peptide of human Aromatase

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:1000-1:5000,IP 1:20-1:50
蛋白分子量（Molecular Weight）	58kDa

研究背景（Background）

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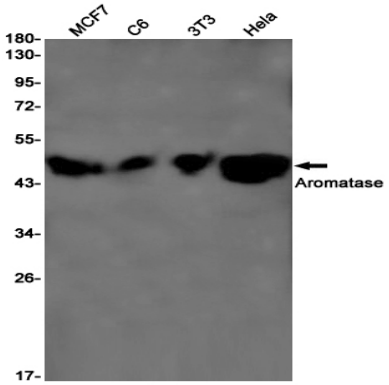
Catalyzes the formation of aromatic C18 estrogens from C19 androgens. A cytochrome P450 monooxygenase that catalyzes the conversion of C19 androgens, androst-4-ene-3,17-dione (androstenedione) and testosterone to the C18 estrogens, estrone and estradiol, respectively (PubMed:27702664, PubMed:2848247). Catalyzes three successive oxidations of C19 androgens: two conventional oxidations at C19 yielding 19-hydroxy and 19-oxo/19-aldehyde derivatives, followed by a third oxidative aromatization step that involves C1-beta hydrogen abstraction combined with cleavage of the C10-C19 bond to yield a phenolic A ring and formic acid (PubMed:20385561). Alternatively, the third oxidative reaction yields a 19-norsteroid and formic acid. Converts dihydrotestosterone to delta1,10-dehydro 19-nordihydrotestosterone and may play a role in homeostasis of this potent androgen (PubMed:22773874). Also displays 2-hydroxylase activity toward estrone (PubMed:22773874). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:20385561, PubMed:22773874).

研究领域（Research Area）

Steroid hormone biosynthesis;Androgen and estrogen metabolism;

图片（Image Data）



Western blot detection of Aromatase in MCF7,C6,3T3,Hela cell lysates using Aromatase antibody(1:1000 diluted).

注意事项（Note）

For research use only .