

Product Name: Aromatase (4R11) Rabbit Monoclonal Antibody
Catalog #: AMRe07154



Summary

Production Name	Aromatase (4R11) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	CYP19A1 {ECO:0000303 PubMed:24705274, ECO:0000312 HGNC:HGNC:2594}
Alternative Names	Aromatase; CYPXIX; Cytochrome P-450AROM; Cytochrome P450 19A1; Estrogen synthase; CYP19A1; ARO1; CYAR; CYP19;
Gene ID	1588.0
SwissProt ID	P11511.A synthetic peptide of human Aromatase

Application

Dilution Ratio	WB: 1:1000-1:5000
Molecular Weight	58kDa

Product Name: Aromatase (4R11) Rabbit Monoclonal Antibody
Catalog #: AMRe07154

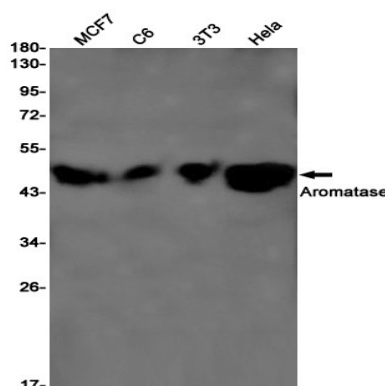


Background

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](http://www.uniprot.org/citations/27702664), PubMed: [2848247](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/22773874)). Also displays 2-hydroxylase activity toward estrone (PubMed: [22773874](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20385561), PubMed: [22773874](http://www.uniprot.org/citations/22773874)).

Research Area

Image Data



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

Note

For research use only.

**Product Name: Aromatase (4R11) Rabbit Monoclonal
Antibody**
Catalog #: AMRe07154

