

**Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody**  
Catalog # ABO14003

**Specification**

**Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IP
Primary Accession	<a href="#">P11511</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Rat.

**Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 1588

**Other Names**

Aromatase, 1.14.14.14, CYPXIX, Cytochrome P-450AROM, Cytochrome P450 19A1, Estrogen synthase, CYP19A1 {ECO:0000303|PubMed:24705274, ECO:0000312|HGNC:HGNC:2594}

**Calculated MW**

57883 MW KDa

**Application Details**

WB 1:500-1:2000<br>IP 1:50

**Subcellular Localization**

Membrane; Peripheral membrane protein.

**Tissue Specificity**

Brain, placenta and gonads..

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Aromatase

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated**

## freeze-thaw cycles.

### Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody - Protein Information

**Name** CYP19A1 {ECO:0000303|PubMed:24705274, ECO:0000312|HGNC:HGNC:2594}

#### Function

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: <a href="http://www.uniprot.org/citations/27702664" target="\_blank">27702664</a>, PubMed: <a href="http://www.uniprot.org/citations/2848247" target="\_blank">2848247</a>). 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: <a href="http://www.uniprot.org/citations/20385561" target="\_blank">20385561</a>). 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: <a href="http://www.uniprot.org/citations/22773874" target="\_blank">22773874</a>). Also displays 2-hydroxylase activity toward estrone (PubMed: <a href="http://www.uniprot.org/citations/22773874" target="\_blank">22773874</a>). 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: <a href="http://www.uniprot.org/citations/20385561" target="\_blank">20385561</a>, PubMed: <a href="http://www.uniprot.org/citations/22773874" target="\_blank">22773874</a>).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi-pass membrane protein

#### Tissue Location

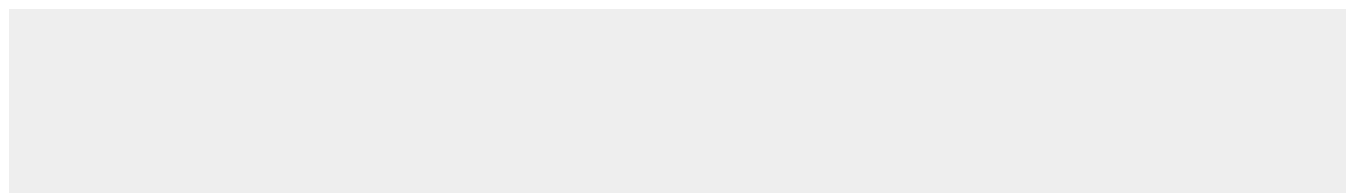
Widely expressed, including in adult and fetal brain, placenta, skin fibroblasts, adipose tissue and gonads

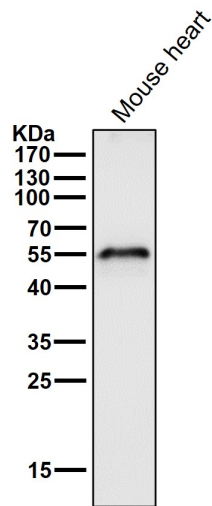
### Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

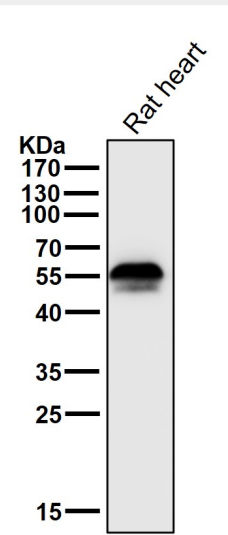
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Aromatase CYP19A1 Rabbit Monoclonal Antibody - Images

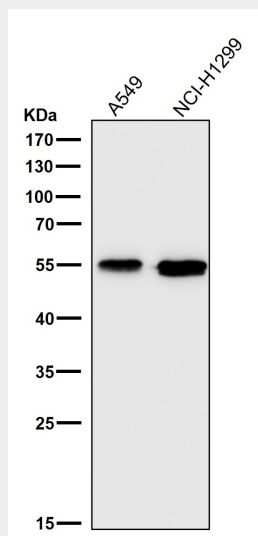




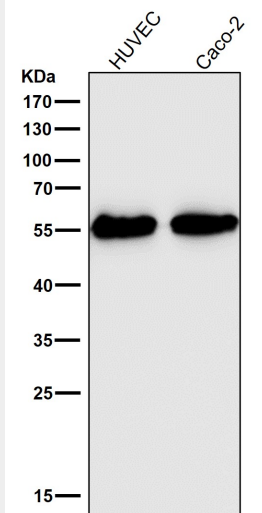
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



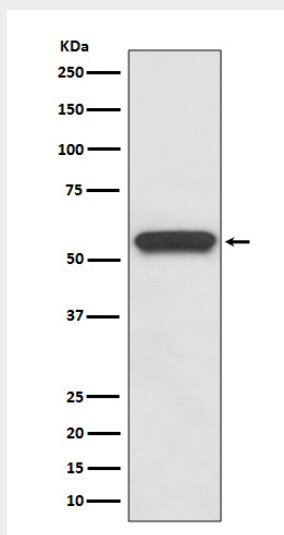
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



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Western blot analysis of Aromatase expression in rat brain lysate.