

Polyclonal Antibody to Aromatase - Purified

Alternate names:	Cytochrome P450 19A1, CYPXIX, Estrogen synthetase, P450AROM, CYP19A1, ARO1, CYAR, CYP19
Catalog No.:	AP00001PU-N
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Aromatase is a key enzyme in steroidogenesis and plays an important role in sexual differentiation, oestrogen biosynthesis, fertility and carcinogenesis. It is highly conserved amongst mammals, and is highly expressed in placental tissue. Many environmental chemicals may influence aromatase activity and thereby disrupt endocrine function.
Uniprot ID:	P11511
NCBI:	9606
GeneID:	1588
Host / Isotype:	Rabbit
Immunogen:	Synthetic peptide surrounding amino acid 385 of Human Aromatase Genename: CYP19A1
Format:	State: Liquid purified Ig fraction Purification: Immunoaffinity Chromatography Buffer System: PBS containing 30% Glycerol, 0.5% BSA as stabilizer and 0.01% Thimerosal as preservative.
Applications:	Immunohistochemistry (10-20 µg/ml). Western blotting (0.5-4 µg/ml): A 55 kDa band can be detected, corresponding to the expected molecular weight of Aromatase, an additional 35 kDa band (believed to be the cleavage product of Aromatase) can also be detected in Jurkat cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes Aromatase p450AROM.
Species Reactivity:	Tested: Human, Mouse, Rat, Rabbit, Bovine, Sheep, Porcine, Equine and Chicken.
Storage:	Store the antibody at -20°C or aliquot and freeze at -70°C for long term storage. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.
Product Citation:	1. S. Colette, J.C. Lousse, S. Defrère, M. Curaba, J.F. Heilier, A. Van Langendonck, M. Mestdagt, J.M. Foidart, E. Loumaye, and J. Donnez. Absence of aromatase protein and mRNA expression in endometriosis.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Hum. Reprod., Sep 2009; 24: 2133-2141.

2. Jae-Hwan Jeong, Youn-Kwan Jung, Hyo-Jin Kim, Jung-Sook Jin, Hyun-Nam Kim, Sang-Min Kang, Shin-Yoon Kim, Andre J. van Wijnen, Janet L. Stein, Jane B. Lian, Gary S. Stein, Shigeaki Kato, and Je-Yong Choi.

Aromatase, a Rate Limiting Enzyme for Local Estrogen Biosynthesis, Is a Downstream Target Gene of Runx2 in Skeletal Tissues.

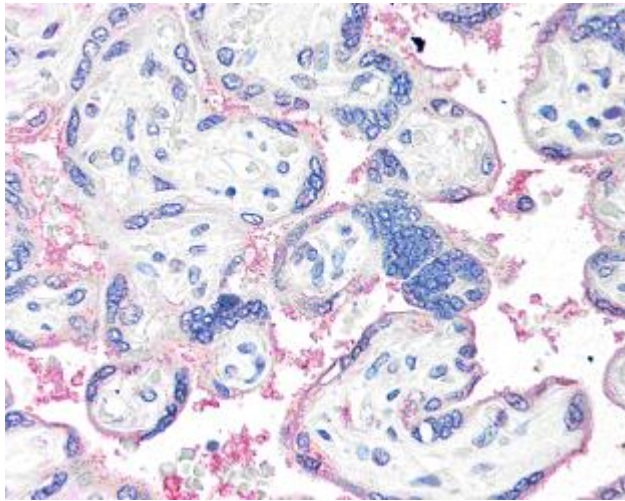
Mol. Cell. Biol., Mar 2010; 10.1128/MCB.00672-09.

3. Jae-Hwan Jeong, Youn-Kwan Jung, Hyo-Jin Kim, Jung-Sook Jin, Hyun-Nam Kim, Sang-Min Kang, Shin-Yoon Kim, Andre J. van Wijnen, Janet L. Stein, Jane B. Lian, Gary S. Stein, Shigeaki Kato, and Je-Yong Choi

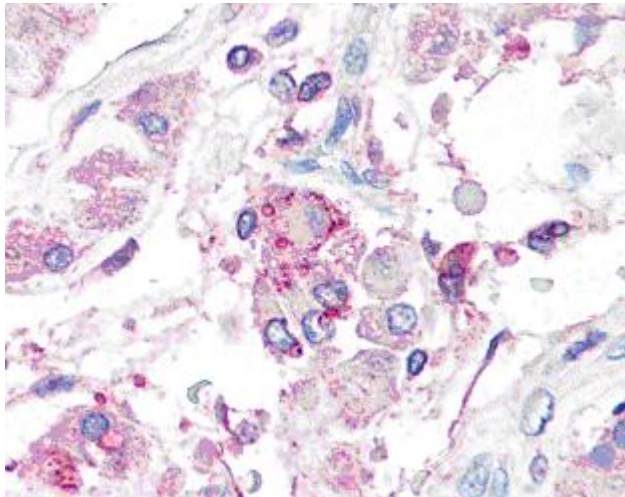
The Gene for Aromatase, a Rate-Limiting Enzyme for Local Estrogen Biosynthesis, Is a Downstream Target Gene of Runx2 in Skeletal Tissues

Mol. Cell. Biol., May 2010; 30: 2365 - 2375.

Pictures:



Immunohistochemical staining of human placenta using Aromatase antibody AP00001PU-N showed staining of trophoblasts (Placental Villi 40X).



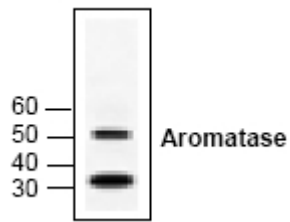
Immunohistochemical staining of human testis using Aromatase antibody AP00001PU-N showed staining of Leydig cells and spermatocytes in seminiferous tubules (Testis, Leydig Cells 60X).

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Western blot analysis of Aromatase in Human brain cell lysate using anti-Aromatase antibody (AP00001PU-N).



**Recommended
Control Peptides:**

AP00001CP-N

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