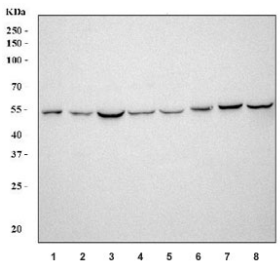
Aromatase Antibody / CYP19A1 (RQ6861)

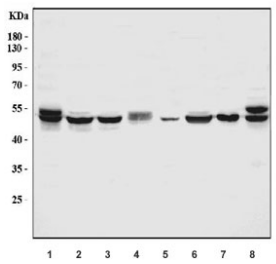
Catalog No.	Formulation	Size
RQ6861	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P28649
Applications	Western blot: 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Aromatase antibody is available for research use only.



Western blot testing of 1) rat testis, 2) rat ovary, 3) rat brain, 4) rat C6, 5) mouse testis, 6) mouse ovary, 7) mouse brain and 8) mouse NIH 3T3 cell lysate with Aromatase antibody. Predicted molecular weight ~58 kDa.



Western blot testing of human 1) placenta, 2) HepG2, 3) HCCT, 4) HCCP, 5) U-87 MG, 6) MCF7, 7) SK-O-V3 and 8) SiHa cell lysate with Aromatase antibody. Predicted molecular weight ~58 kDa.

Description

CYP19A1, also called Aromatase, is an enzyme responsible for a key step in the biosynthesis of estrogens. It is a member of the cytochrome P450 superfamily, which are monooxygenases that catalyze many reactions involved in steroidogenesis. In particular, aromatase is responsible for the aromatization of androgens into estrogens. The CYP19 gene spans at least 70 kb of genomic DNA and contains 10 exons. By in situ hybridization, the ARO gene is mapped to 15q21.1. The aromatase enzyme can be found in many tissues including gonads, brain, adipose tissue, placenta, blood vessels, skin, bone, and endometrium, as well as in tissue of endometriosis, uterine fibroids, breast cancer, and endometrial cancer. It is an important factor in sexual development. Some bodybuilders taking steroids also take antiaromatase supplements to prevent excess testosterone conversion into estrogens, which can cause gynecomastia.

Application Notes

Optimal dilution of the Aromatase antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids N75-Q428) was used as the immunogen for the Aromatase antibody.

Storage

After reconstitution, the Aromatase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.