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Datasheet for ABIN6139316
anti-Aromatase antibody (AA 1-180)

4 Images

Overview

Quantity:	100 µL
Target:	Aromatase (CYP19A1)
Binding Specificity:	AA 1-180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aromatase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-180 of human Aromatase (CYP19A1) (NP_000094.2).
Sequence:	MVLEMLNPIH YNITSIVPEA MPAATMPVLL LTGLFLLVWN YEGTSSIPGP GYCMGIGPLI SHGRFLWMGI GSACNYNRY YGEFMRVWIS GEETLIISK SSMFHIMKHN HYSSRFGSKL GLQCIGMHEK GIIFNNPEL WKTRPFFMK ALSGPGLVVM VTVCAESLKT HLDRLLEVTN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Aromatase (CYP19A1)
Alternative Name:	CYP19A1 (CYP19A1 Products)
Background:	<p>This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and catalyzes the last steps of estrogen biosynthesis. Mutations in this gene can result in either increased or decreased aromatase activity, the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. Alternative promoter use and alternative splicing results in multiple transcript variants that have different tissue specificities.,CYP19A1,ARO,ARO1,CPV1,CYAR,CYP19,CYPXIX,P-450AROM,aromatase,Aromatase,Epigenetics & Nuclear Signaling,Nuclear Receptor Signaling,Cancer,Cell Biology & Developmental Biology,Cell Cycle,Cell differentiation,Endocrine & Metabolism,Lipid Metabolism,Neuroscience,CYP19A1</p>
Molecular Weight:	24 kDa/57 kDa
Gene ID:	1588
UniProt:	P11511
Pathways:	Metabolism of Steroid Hormones and Vitamin D , Steroid Hormone Biosynthesis , C21-Steroid Hormone Metabolic Process , Carbohydrate Homeostasis

Application Details

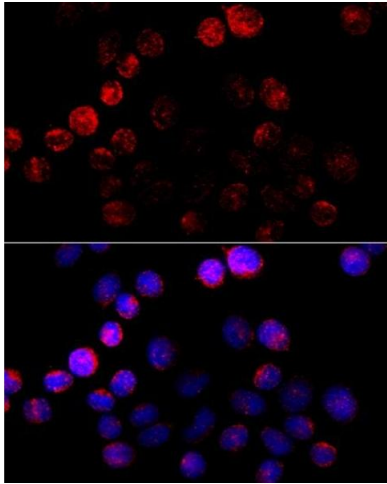
Application Notes:	WB,1:1000 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

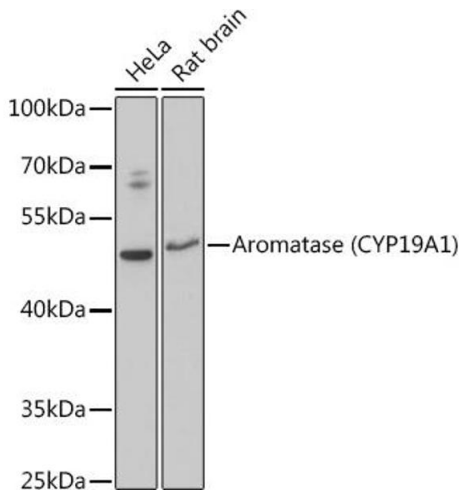
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



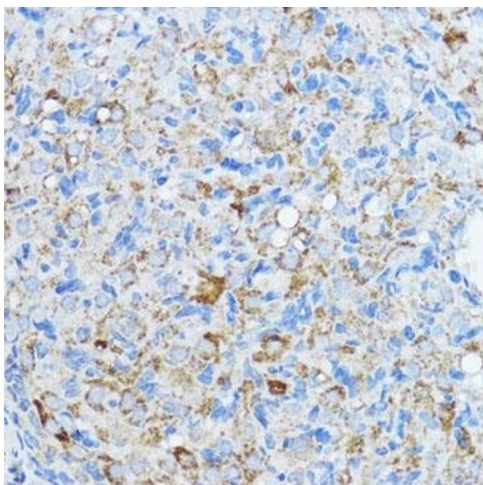
Immunofluorescence

Image 1. Immunofluorescence analysis of HeLa cells using Aromatase (CYP19) antibody (2684) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using Aromatase (CYP19) antibody (2684) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded rat ovary using Aromatase (CYP19) antibody (2684) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6139316.