

Datasheet for ABIN7266649
anti-Aromatase antibody

3 Images

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Overview

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

Product Details

Purpose:	Aromatase (CYP19A1) Rabbit mAb
Immunogen:	A synthesized peptide derived from human Aromatase (CYP19A1)
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Aromatase (CYP19A1)
Alternative Name:	CYP19A1 (CYP19A1 Products)
Background:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The

Target Details

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. [provided by RefSeq, Dec 2016],ARO, ARO1, CPV1, CYAR, CYP19, CYPXIX, P-450AROM,Cancer,Cell Biology & Developmental Biology,Cell Cycle,Cell Cycle_Cell differentiation,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,Lipid Metabolism,Neuroscience,Nuclear Receptor Signaling,CYP19A1

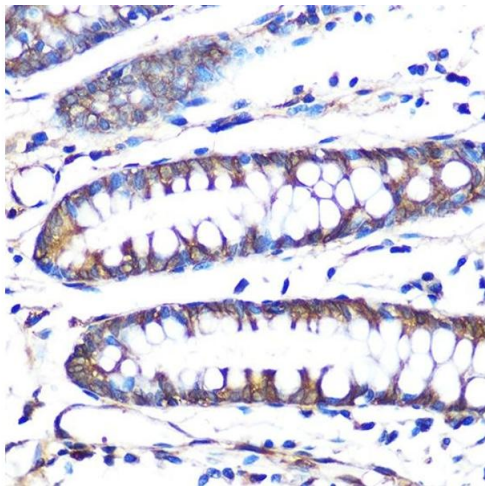
Molecular Weight:	53kDa
Gene ID:	1588
UniProt:	P11511
Pathways:	Metabolism of Steroid Hormones and Vitamin D , Steroid Hormone Biosynthesis , C21-Steroid Hormone Metabolic Process , Carbohydrate Homeostasis

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

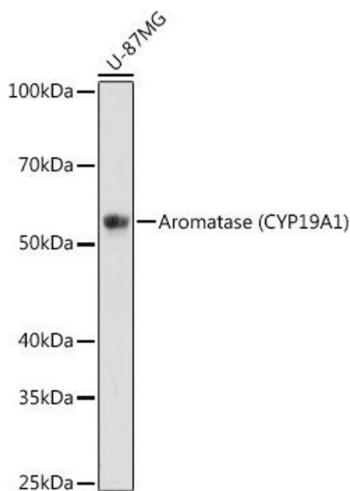
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,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.



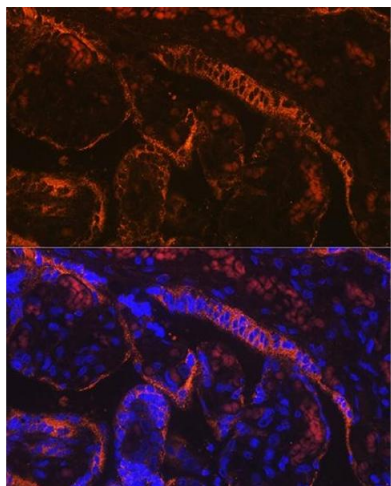
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon using Aromatase (CYP19) Rabbit mAb (2238) 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.



Western Blotting

Image 2. Western blot analysis of extracts of U-87MG cells, using Aromatase (CYP19) antibody (2238) at 1:1000 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 Enhanced Kit (RM00021). Exposure time: 180s.



Immunofluorescence

Image 3. Immunofluorescence analysis of human placenta using Aromatase (CYP19) Rabbit mAb (2238) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.