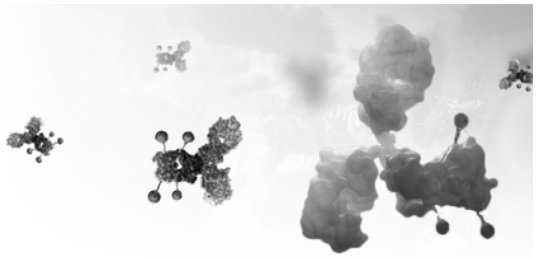

Anti-Cytochrome P450 Aromatase monoclonal antibody, clone H4 (CABT-52073MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse anti Human Cytochrome P450 Aromatase antibody, clone H4 recognizes a conserved epitope within cytochrome P450 aromatase (P450 arom). P450 arom plays an important role in estrogen biosynthesis and is highly conserved amongst mammals. P450 arom is highly expressed in placental tissue. For tissues where there may be low expression of P450 arom, the use of microsomal extracts may improve the staining for Western blots using Mouse anti Human Cytochrome P450 Aromatase antibody, clone H4. Immunohistology This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Specificity	CYTOCHROME P450 AROMATASE
Immunogen	Synthetic peptide corresponding to amino acids 376 - 390 of human aromatase.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human, Baboon, Bovine, Chicken, Collared peccary, Giraffe, Goat, Great fruit eating bat, Horse, Marmoset, Mouse, Pig, Rabbit, Rat, Sheep
Clone	H4
Conjugate	Unconjugated
Applications	IF; IHC-P; WB
Format	Concentrated Tissue Culture Supernatant - liquid
Size	1 ml
Preservative	0.09% Sodium Azide

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Storage	in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CYP19A1 cytochrome P450, family 19, subfamily A, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP19A1
Synonyms	CYP19A1; cytochrome P450, family 19, subfamily A, polypeptide 1; ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM; aromatase; estrogen synthase; estrogen synthetase; cytochrome P-450AROM; cytochrome P450 19A1; microsomal monooxygenase; flavoprotein-linked
Entrez Gene ID	1588
Protein Refseq	NP_000094
UniProt ID	P11511
Chromosome Location	15q21.1
Pathway	Biological oxidations; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione => estrone; Cytochrome P450 - arranged by substrate type; Defective CYP11A1 causes Adrenal insufficiency, congenital, with 46,XY sex reversal (AICSR); Defective CYP11B1 causes Adrenal hyperplasia 4 (AH4); Defective CYP11B2 causes Corticosterone methyloxidase 1 deficiency (CMO-1 deficiency); Defective CYP17A1 causes Adrenal hyperplasia 5 (AH5); Defective CYP19A1 causes Aromatase excess syndrome (AEX
Function	aromatase activity; electron carrier activity; heme binding; iron ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; oxygen binding;

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