

## Product datasheet for **CF503442**

### Cytochrome P450 17A1 (CYP17A1) Mouse Monoclonal Antibody [Clone ID: OTI3F11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3F11
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CYP17A1(NP_000093) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57.2 kDa
Gene Name:	Homo sapiens cytochrome P450 family 17 subfamily A member 1 (CYP17A1), mRNA.
Database Link:	<a href="#">NP_000093</a> <a href="#">Entrez Gene 1586 Human P05093</a>



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**Background:**

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. It has both 17 $\alpha$ -hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17  $\alpha$ -hydroxylase deficiency, 17- $\alpha$ -hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia. [provided by RefSeq, Jul 2008]

**Synonyms:**

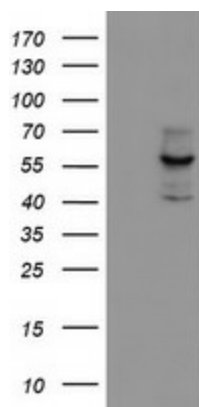
CPT7; CYP17; P450C17; S17AH

**Protein Families:**

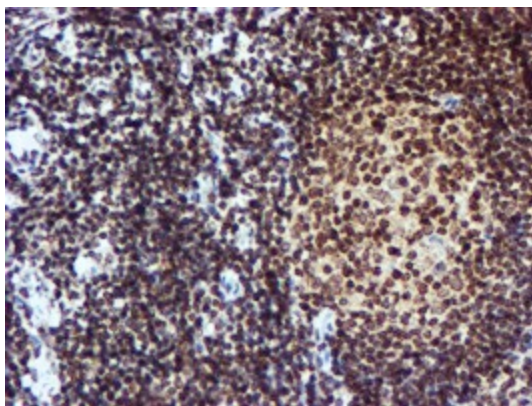
Druggable Genome, P450

**Protein Pathways:**

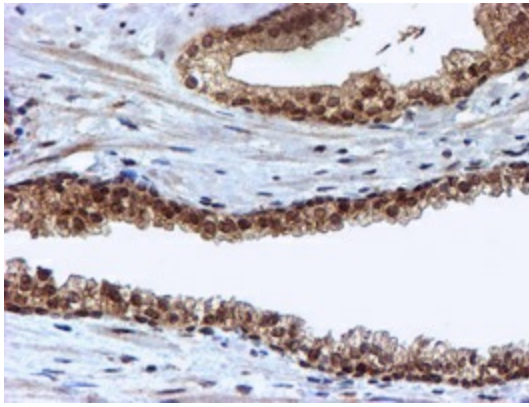
C21-Steroid hormone metabolism, Metabolic pathways

**Product images:**

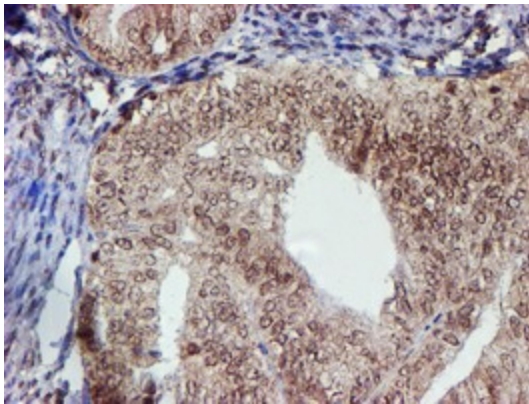
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CYP17A1 (Cat# [RC209042], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5  $\mu$ g per lane) were separated by SDS-PAGE and immunoblotted with anti-CYP17A1 (Cat# [TA503442]). Positive lysates [LY400030] (100 $\mu$ g) and [LC400030] (20 $\mu$ g) can be purchased separately from OriGene.



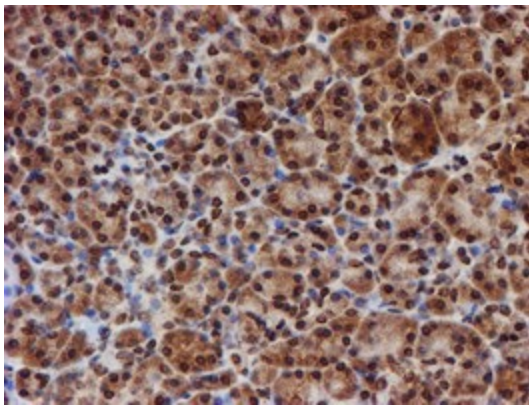
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



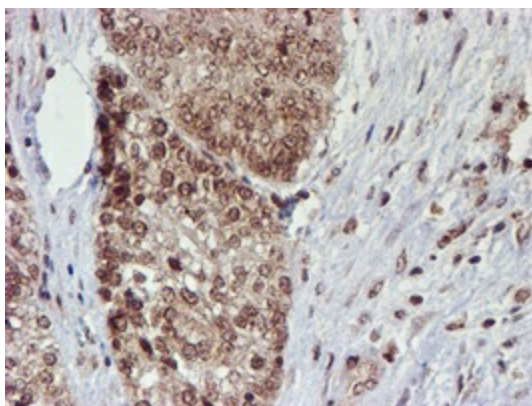
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



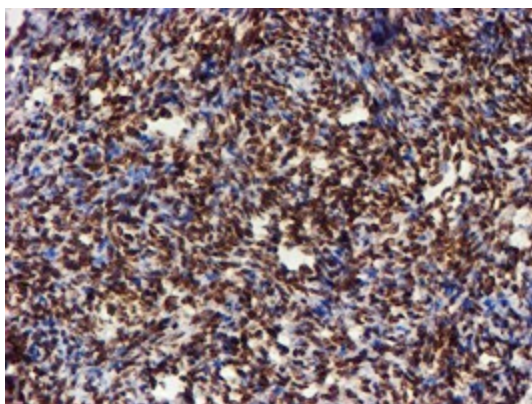
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



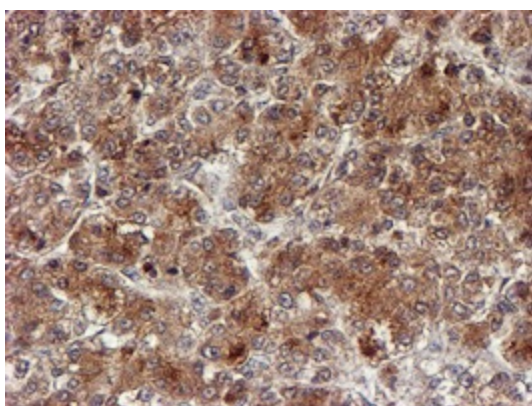
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



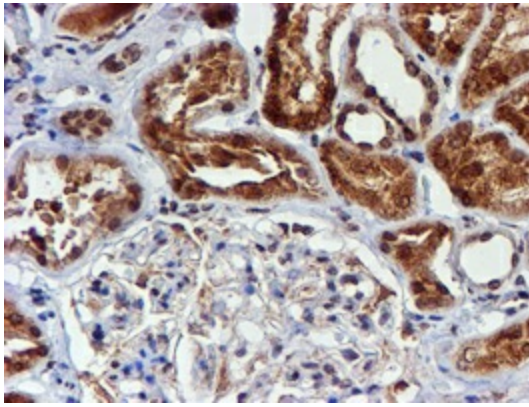
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



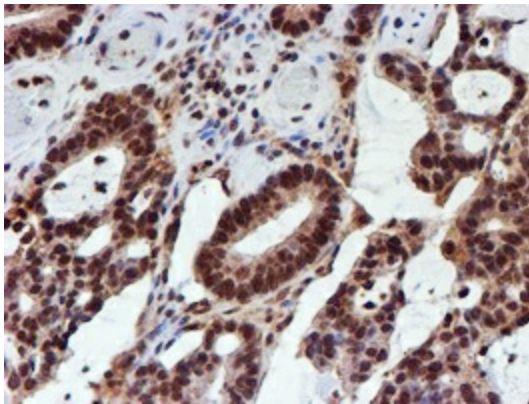
Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



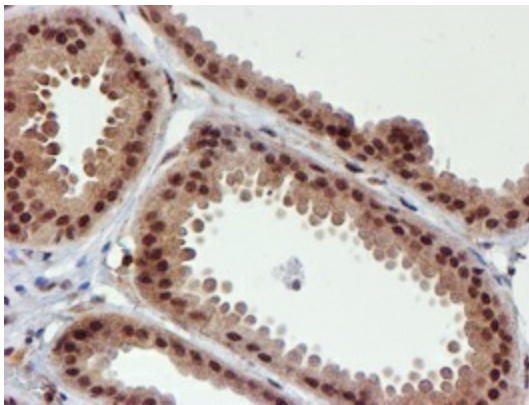
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



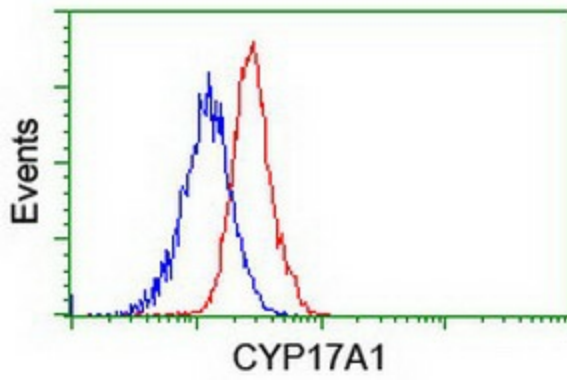
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



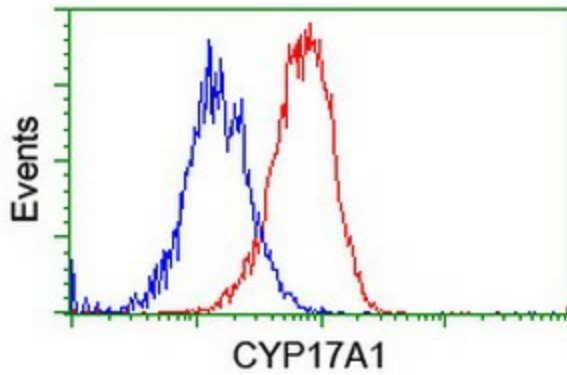
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-CYP17A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503442])



Flow cytometric Analysis of Jurkat cells, using anti-CYP17A1 antibody ([TA503442]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of HeLa cells, using anti-CYP17A1 antibody ([TA503442]), (Red), compared to a nonspecific negative control antibody, (Blue).