

Anti-CYP17 / CYP17A1 Antibody (aa1-508)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18525**Specification**

Anti-CYP17 / CYP17A1 Antibody (aa1-508) - Product Information

Application	WB, IHC-P, E
Primary Accession	P05093
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	57371

Anti-CYP17 / CYP17A1 Antibody (aa1-508) - Additional Information**Gene ID** 1586**Alias Symbol** **CYP17A1****Other Names**

CYP17A1, CYP17, CYPXVII, CPT7, Cytochrome P450-C17, Cytochrome P450c17, p450C17, Steroid 17-alpha-monooxygenase, Cytochrome P450 17A1, Cytochrome p450 XVIIA1, S17AH

Target/Specificity

Human CYP17 / CYP17A1

Reconstitution & Storage

Caprylic acid and ammonium sulfate precipitation

Precautions

Anti-CYP17 / CYP17A1 Antibody (aa1-508) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CYP17 / CYP17A1 Antibody (aa1-508) - Protein Information**Name** CYP17A1 {ECO:0000303|PubMed:19793597, ECO:0000312|HGNC:HGNC:2593}**Function**

A cytochrome P450 monooxygenase involved in corticoid and androgen biosynthesis (PubMed:9452426, PubMed:27339894, PubMed:22266943, PubMed:25301938). Catalyzes 17-alpha hydroxylation of C21 steroids, which is common for both pathways. A second oxidative step, required only for androgen synthesis, involves an acyl-carbon cleavage. The 17-alpha hydroxy intermediates, as part of adrenal glucocorticoids biosynthesis pathway, are precursors of cortisol (PubMed:9452426, PubMed:25301938).

target="_blank">25301938) (Probable). Hydroxylates steroid hormones, pregnenolone and progesterone to form 17-alpha hydroxy metabolites, followed by the cleavage of the C17-C20 bond to form C19 steroids, dehydroepiandrosterone (DHEA) and androstenedione (PubMed:9452426, PubMed:27339894, PubMed:22266943, PubMed:25301938, PubMed:36640554). Has 16-alpha hydroxylase activity. Catalyzes 16-alpha hydroxylation of 17-alpha hydroxy pregnenolone, followed by the cleavage of the C17-C20 bond to form 16-alpha-hydroxy DHEA (PubMed:36640554). Also 16-alpha hydroxylates androgens, relevant for estriol synthesis (PubMed:27339894, PubMed:25301938). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:9452426, PubMed:27339894, PubMed:22266943, PubMed:25301938).

Cellular Location

Endoplasmic reticulum membrane. Microsome membrane

Anti-CYP17 / CYP17A1 Antibody (aa1-508) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CYP17 / CYP17A1 Antibody (aa1-508) - Images