Cytochrome P450 17A1 Rabbit mAb

Catalog No: #49842

Package Size: #49842-1 50ul #49842-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Cytochrome P450 17A1 Rabbit mAb
Clone No.	JB93-32
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	20 lyase antibody CP17A_HUMAN antibody CPT7 antibody CYP17 antibody CYP17A1 antibody CYPXVII antibody Cytochrome P450 17A1 antibody Cytochrome P450 family 17 antibody Cytochrome P450 family 17 subfamily A polypeptide 1 antibody Cytochrome p450 subfamily XVII (steroid 17 alpha hydroxylase) adrenal hyperplasia antibody Cytochrome p450 XVIIA1 antibody Cytochrome P450-C17 antibody Cytochrome P450c17 antibody OTTHUMP00000020382 antibody P450 C17 antibody P450c17 antibody S17AH antibody Steroid 17 alpha hydroxylase/17,20 lyase antibody Steroid 17 alpha monooxygenase antibody Steroid 17-alpha-hydroxylase/17 antibody Steroid 17-alpha-monooxygenase antibody
Accession No.	Swiss-Prot#:P05093
Uniprot	P05093
GeneID	1586;
Calculated MW	57 kDa
Concentration	1 mg/ml
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

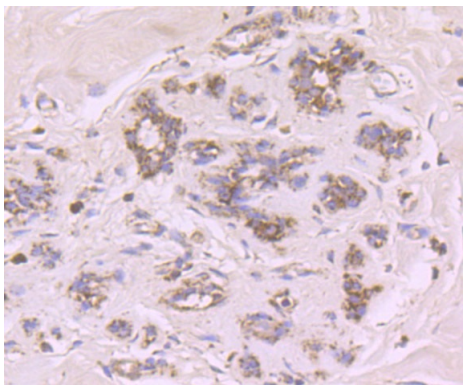
Application Details

IHC: 1:50-1:200

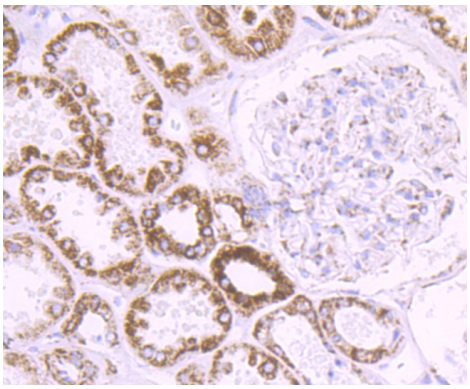
ICC: 1:50-1:200

FC: 1:50-1:100

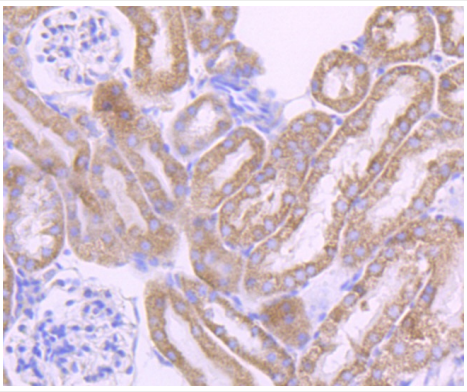
Images



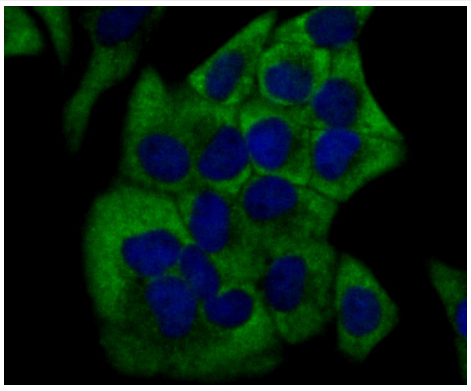
Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-Cytochrome P450 17A1 antibody. Counter stained with hematoxylin.



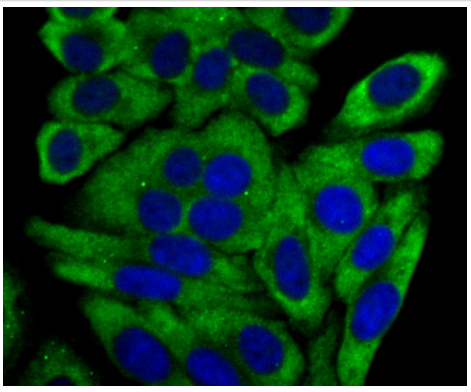
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Cytochrome P450 17A1 antibody. Counter stained with hematoxylin.



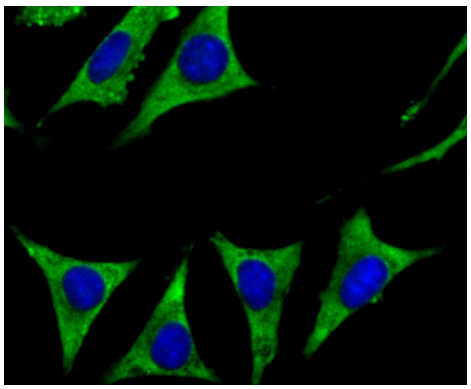
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Cytochrome P450 17A1 antibody. Counter stained with hematoxylin.



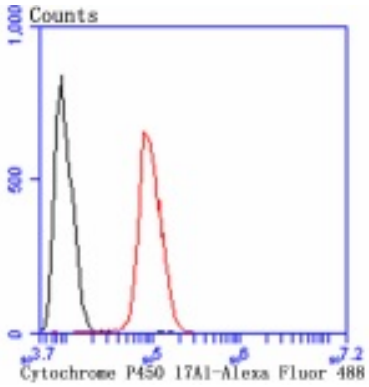
ICC staining Cytochrome P450 17A1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cytochrome P450 17A1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cytochrome P450 17A1 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY-5Y cells with Cytochrome P450 17A1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. P450 enzymes are classified into subfamilies, such as CYP1A, CYP2A, CYP2C, CYP2D, CYP4A14, CYP7A, CYP7B, CYP8B, CYP11A, CYP17A1, CYPI9 and CYP27A, based on sequence similarities. CYP17A (17alpha-hydroxylase/17,20-lyase) is important for the conversion of pregnenolone and progesterone to dehydroepiandrosterone (DHEA) and androstenedione. In this process, it catalyzes both the 17-alpha-hydroxylation and the 17,20-lyase reaction. CYP17A1 is crucial during sexual development, both during fetal development and during puberty, and is intracellularly regulated by cAMP levels. Defects in the CYP17A1 gene, which encodes for the protein, may cause adrenal hyperplasia type V (AH-V) which is characterized by hypokalemia and hypertension. Male patients affected by AH-V do not undergo normal sexual differentiation and develop female external genitalia and do not undergo pubertal develoment.

Note: This product is for in vitro research use only