

CYP11A1 Antibody

Catalog No: #32398

Package Size: #32398-1 50ul #32398-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

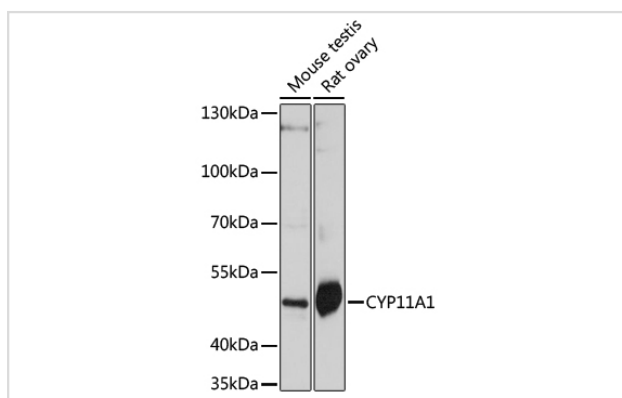
Description

Product Name	CYP11A1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total CYP11A1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CYP11A1.
Target Name	CYP11A1
Other Names	CYP11A; CYPXIA1; P450SCC;
Accession No.	Swiss-Prot:P05108NCBI Gene ID:1583
Uniprot	P05108
GeneID	1583;
SDS-PAGE MW	60KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

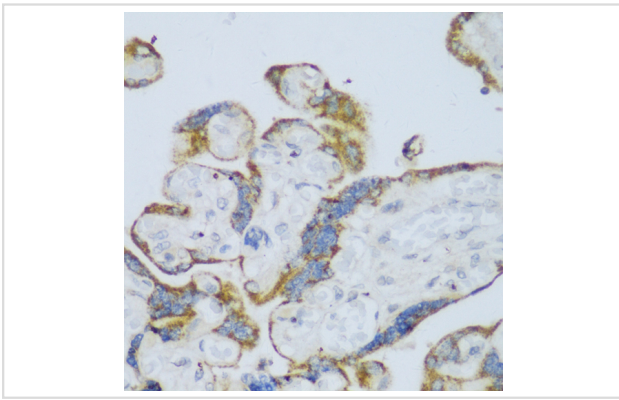
Application Details

WB □ 1:500 - 1:2000 IHC □ 1:20 - 1:50 IF □ 1:20 - 1:50

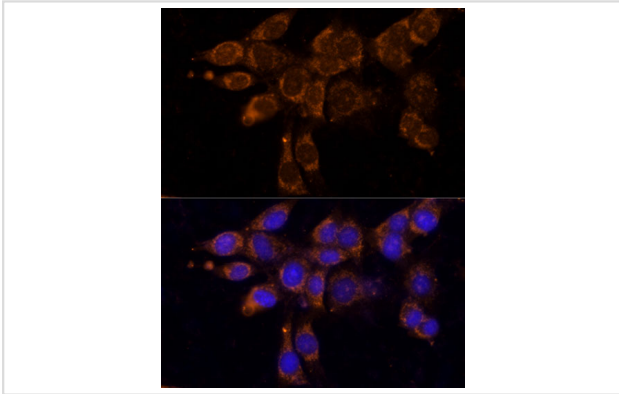
Images



Western blot analysis of extracts of various cell lines, using CYP11A1 at 1:1000 dilution.



Immunohistochemistry of paraffin-embedded human placenta using CYP11A1 at dilution of 1:150 (40x lens).



Immunofluorescence analysis of NIH/3T3 cells using CYP11A1 at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

The formation of biologically active steroid hormones is significantly influenced by the mitochondrial cytochrome P450 enzyme, cholesterol side-chain cleavage. CYP11A1 functions in catalyzing the first step of steroid biosynthesis under modulation of cAMP. It is also known as cytochrome P450C11A1, cytochrome P450scc and cytochrome P450, subfamily XIA. Expression of CYP11A1 has been a useful tool for monitoring the differentiation state of cells from various endocrine tissues. Identification of CYP11A1 expression by 13363-1-AP detected a ~45kd band in human placenta, with respect to the reported band at 49-52kd by Roby, et al and Durkee, et al.

Note: This product is for in vitro research use only