abcam

Product datasheet

Anti-CYP11A1 antibody ab175408

25 References   2 Images

Overview

Product name	Anti-CYP11A1 antibody
Description	Rabbit polyclonal to CYP11A1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
	Predicted to work with: Cynomolgus monkey
Immunogen	Recombinant full length protein corresponding to Human CYP11A1 aa 40-320. Sequence:

MLAKGLPPRSVLVKGCQTFLSAPREGLGRLRVPTGEGAG ISTRSPRPFNE
IPSPGDNGWLNLYHFWRETGTHKVHLHHVQNFQKYGPIYR EKLGNVESVY
VIDPEDVALLFKSEGPNPERFLIPPWVAYHQYYQRPIGVLL KKSAAWKKD
RVALNQEVMAPEATKNFLPLLDAVSRDFVSVLHRRIKKAG SGNYSGDISD
DLFRFAFESITNVIFGERQGMLEEVVNPEAQRFIDAIYQMF HTSVPMLNL
PPDLFRLFRTKTWKDHVAAWDVIFSKADIYTQNFYWELRQ KGSVHHDYRG
ILYRLLGDSKMSFEDIKANVTEMLAGGVDTTSMTLQWHLY EMARNLKVQD
MLRAEVLAARHQAQGDMATMLQLVPLLKASIKETLRLHPI SVTLQRYLVN
DLVLRDYMIPAKTLVQVAIYALGREPTFFFDPENFDPTRWL SKDKNITYF
RNLGFGWGVRQCLGRRIAELEMTIFLINMLENFRVEIQHLS DVGTTFNLI LMPEKPISFTFWPFNQEATQQ

Database link: **P05108**

📄 **Run BLAST with**   📄 **Run BLAST with**

Positive control	WB: Mouse testis, rat ovary; IHC-P: human placenta.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies

and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

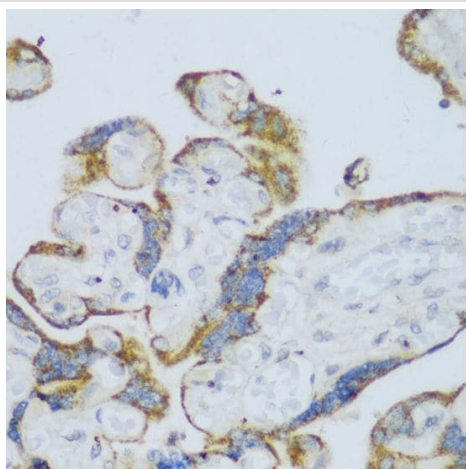|	
Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab175408 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

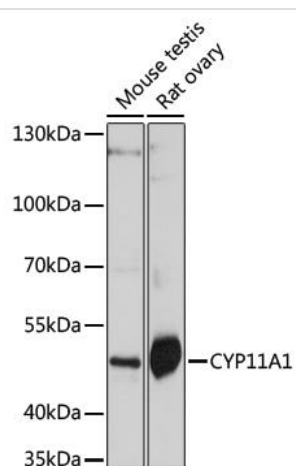| Application	Abreviews	Notes
IHC-P		1/50 - 1/200. **ab171870** - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Predicted molecular weight: 60 kDa.

Target

Function	Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone.
Pathway	Lipid metabolism; C21-steroid hormone metabolism.
Involvement in disease	Defects in CYP11A1 are a cause of congenital adrenal insufficiency (CAI). Defects in CYP11A1 are a cause of congenital lipoid adrenal hyperplasia (CLAH) [MIM:201710]; also known as lipoid CAH. CLAH is the most severe form of adrenal hyperplasia. This autosomal recessive and potentially lethal condition includes the onset of profound adrenocortical insufficiency shortly after birth, hyperpigmentation reflecting increased production of pro-opiomelanocortin, elevated plasma renin activity as a consequence of reduced aldosterone synthesis, and male pseudohermaphroditism resulting from deficient fetal testicular testosterone synthesis. CLAH is a rare disease, except in Japan and Korea where it accounts for a significant percentage of cases of congenital adrenal hyperplasia.
Sequence similarities	Belongs to the cytochrome P450 family.

Cellular localization	Mitochondrion membrane.

Images

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP11A1 antibody (ab175408)

Paraffin-embedded human placenta tissue stained for CYP11A1 using ab175408 at 1/150 dilution in immunohistochemical analysis.

Western blot - Anti-CYP11A1 antibody (ab175408)

All lanes : Anti-CYP11A1 antibody (ab175408) at 1/1000 dilution

Lane 1 : Mouse testis
Lane 2 : Rat ovary

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : HRP Goat Anti-Rabbit IgG

Developed using the ECL technique.

Predicted band size: 60 kDa

Exposure time: 10 seconds

Blocking buffer: 3% nonfat dry milk in TBST.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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