abcam

Product datasheet

Anti-CYP11A1 antibody ab223700

1 Image

Overview

Product name	Anti-CYP11A1 antibody
Description	Rabbit polyclonal to CYP11A1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Cynomolgus monkey
Immunogen	Recombinant fragment corresponding to Human CYP11A1 aa 9-146. Sequence: RSVLVKGCQTFLSAPREGLGRLRVPTGEGAGISTRSP RPFNEIPSPGDNG WLNLYHFWRETGTHKVHLHHVQNFQKYGPIYREKLGN VESVYVIDPEDVA LLFKSEGPNPERFLIPPWVAYHQYYQRPIGVLLKKSAA Database link: P05108 Run BLAST with Run BLAST with
Positive control	IHC-P: Human adrenal gland tissue.

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: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

Our Abpromise guarantee covers the use of **ab223700** in the following tested applications.

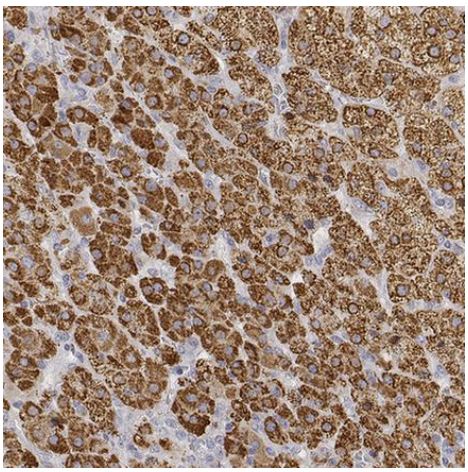
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/1000 - 1/2500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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 (ab223700)

Paraffin-embedded human adrenal gland tissue stained for CYP11A1 using ab223700 at 1/1000 dilution in immunohistochemical analysis.

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