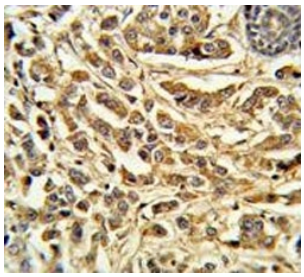
Steroid 21-hydroxylase Antibody / CYP21A2 (F54956)

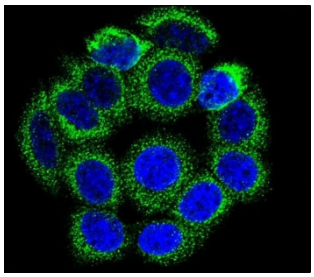
Catalog No.	Formulation	Size
F54956-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54956-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

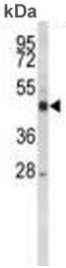
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P08686
Localization	Cytoplasmic
Applications	Western blot: 1:500-1:1000 Immunofluorescence: 1:10-1:50 Immunohistochemistry (FFPE): 1:50-1:100 Flow cytometry: 1:10-1:50 (1x10e6 cells)
Limitations	This Steroid 21-hydroxylase antibody is available for research use only.



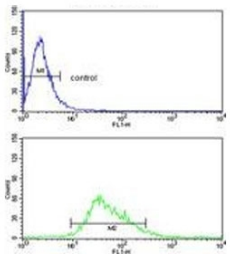
IHC testing of FFPE human breast carcinoma tissue with Steroid 21-hydroxylase antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human HEK293 cells with Steroid 21-hydroxylase antibody (green) and DAPI nuclear stain (blue).



Western blot testing of human MDA-MB-435 cell lysate with Steroid 21-hydroxylase antibody. Expected molecular weight: 52-56 kDa.



Flow cytometry testing of human MDA-MB-231 cells with Steroid 21-hydroxylase antibody; Blue=isotype control, Green= Steroid 21-hydroxylase antibody.

Description

CYP21A2 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and hydroxylates steroids at the 21 position. Its activity is required for the synthesis of steroid hormones including cortisol and aldosterone. Mutations in CYP21A2 gene cause congenital adrenal hyperplasia.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Steroid 21-hydroxylase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 216-246 from the human protein was used as the immunogen for the Steroid 21-hydroxylase antibody.

Storage

Aliquot the Steroid 21-hydroxylase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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