

Human Cytochrome P450 17A1 ELISA Kit | CYP17A1 elisa kit

Cytochrome P450 17A1 Colorimetric Cell-Based ELISA Kit

CATALOG # AAA315566	REACTIVITY Human
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PRODUCT SYNONYMS

Cytochrome P450 17A1; Cytochrome P450 17A1 Colorimetric Cell-Based ELISA Kit; CYP17A1; CYPXVII; P450-C17; P450c17; S17AH; Steroid 17-alpha-hydroxylase/17; 20 lyase; Steroid 17-alpha-monooxygenase; CYP17A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Anti-Cytochrome P450 17A1 Antibody is a rabbit polyclonal antibody. It was tested on Western Blots for specificity. The data in Figure 2 shows that a single protein band was detected. This protein band can be blocked by the synthesized immunogen peptide.
Form/Format	One 96-Well Plate
Sequence Length	508
Samples	Researchers plate their cell line of choice
Assay Type	Non-Phospho Cell-Based ELISA
Sensitivity	>=5000 cells/well
Detection Method	Colorimetric 450 nm
Preparation and Storage	Store at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for CYP17A1 elisa kit	Background: The Colorimetric Cell-Based ELISA Kit allows for the detection of various target proteins and the effects that certain stimulation conditions have on target protein expression in different cell lines. Qualitative determination of target protein concentration is achieved by an indirect ELISA format. In essence, the target protein is captured by target-specific primary (1 degree) antibodies while the HRP-conjugated secondary (2 degree) antibodies bind the Fc region of the 1 degree antibody. Through this binding, the HRP enzyme conjugated to the 2 degree antibody can catalyze a colorimetric reaction upon substrate addition. Due to the qualitative nature of the Cell-Based ELISA, multiple normalization methods are described: 1) a monoclonal antibody specific for human GAPDH is included to serve as an internal positive control in normalizing the target absorbance values. 2) Following the colorimetric measurement of HRP activity via substrate addition, the Crystal Violet whole-cell staining method is used to determine cell density. After staining, the results can be analyzed by normalizing the absorbance values to cell amounts, by which the plating difference can be adjusted. 3) If a phosphorylated target is being detected, an antibody against the non-phosphorylated counterpart will be provided for normalization purposes. The absorbance values obtained for the non-phosphorylated target can be used to normalize the absorbance values for the phosphorylated target. Principle of the Assay: The Cytochrome P450 17A1 Cell-Based ELISA Kit is a convenient, lysate-free, high throughput and sensitive assay kit that can monitor Cytochrome P450 17A1 protein expression profile in cells. The kit can be used for measuring the relative amounts of Cytochrome P450 17A1 in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on Cytochrome P450 17A1.
Product Categories/Family for CYP17A1 elisa kit	Cell Based ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503195
NCBI GeneID	1586
NCBI Accession #	NP_000093.1
NCBI GenBank Nucleotide #	NM_000102.3
UniProt Accession #	P05093; Q5TZV7
Molecular Weight	57 kDa
NCBI Official Full Name	steroid 17-alpha-hydroxylase/17,20 lyase
NCBI Official Synonym Full Names	cytochrome P450 family 17 subfamily A member 1
NCBI Official Symbol	CYP17A1
NCBI Official Synonym Symbols	CPT7; CYP17; S17AH; P450C17
NCBI Protein Information	steroid 17-alpha-hydroxylase/17,20 lyase
UniProt Protein Name	Steroid 17-alpha-hydroxylase/17,20 lyase
UniProt Gene Name	CYP17A1
UniProt Synonym Gene Names	CYP17; S17AH; Cytochrome P450c17

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cyp17a1-human-elisa-kits/cytochrome-p450-17a1/315566>