

Rat Cytochrome P450 2C9 (CYP2C9) ELISA Kit | CYP2C9 elisa kit

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CATALOG #
AAA245497

REACTIVITY
Rat

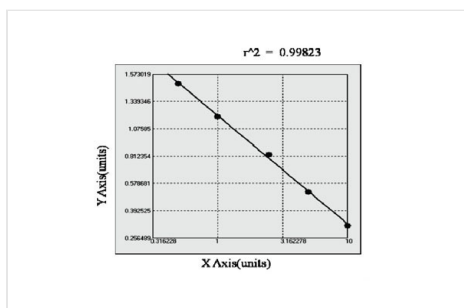
PRODUCT SYNONYMS

Cytochrome P450 2C9 (CYP2C9); Rat Cytochrome P450 2C9 (CYP2C9) ELISA Kit; CYP2C9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/ml
Intended Uses	This CYP2C9 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CYP2C9. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP2C9 elisa kit

Principle of the assay: CYP2C9 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CYP2C9 antibody and an CYP2C9-HRP conjugate. The assay sample and buffer are incubated together with CYP2C9-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CYP2C9 concentration since CYP2C9 from samples and CYP2C9-HRP conjugate compete for the anti-CYP2C9 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP2C9 from the sample, fewer sites are left to bind CYP2C9-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP2C9 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13699818
NCBI GeneID	1559
NCBI Accession #	NP_000762.2
NCBI GenBank Nucleotide #	NM_000771.3
Molecular Weight	18,005 Da
NCBI Official Full Name	cytochrome P450 2C9
NCBI Official Synonym Full Names	cytochrome P450, family 2, subfamily C, polypeptide 9
NCBI Official Symbol	CYP2C9
NCBI Official Synonym Symbols	CPC9; CYP2C; CYP2C10; CYP11C9; P45011C9
NCBI Protein Information	cytochrome P450 2C9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P-450 S-mephenytoin 4-hydroxylase
UniProt Protein Name	Cytochrome P450 2C9
UniProt Gene Name	CYP2C9
UniProt Synonym Gene Names	CYP2C10
UniProt Entry Name	CP2C9_HUMAN

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://stage.aaabiotech.com/rat-elisa-kits/cytochrome-p450-2c9-cyp2c9/245497>