

Datasheet: AHP617Z

Description:	RABBIT ANTI HUMAN CYTOCHROME P450 2C9
Specificity:	CYTOCHROME P450 2C9
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

Product Details

RRID AB_323616

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/5000 - 1/10000
Functional Assays	▪			2-10ul

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Serum - liquid

Antiserum Preparation Antisera to human CYP2C9 were raised by repeated immunisation of rabbits with highly purified antigen.

Preservative Stabilisers None Present

Immunogen Purified human CYP2C9 expressed in *E.coli*.

External Database Links

UniProt:
[P11712](#) [Related reagents](#)

Entrez Gene:
[1559](#) CYP2C9 [Related reagents](#)

Synonyms	CYP2C10
Specificity	<p>Rabbit anti Human Cytochrome P450 2C9 antibody recognizes human cytochrome p450 2C9 (CYP2C9). P450 enzymes are divided into two groups: steroidogenic and xenobiotic (Hornsby et al. 1989). The latter group is comprised of three families 1, 2 and 3. The xenobiotic p450's are involved in most oxidative drug metabolism (Murray et al. 1992). Work in this area is ongoing but studies suggest that all known drug metabolism is mediated by family members: CYP3A, CYP2D6, CYP1A2, CYP2C9/10, CYP2C19 and CYP2E1.</p> <p>Rabbit anti human cytochrome P450 2C9 is a neutralizing antibody which is a potent inhibitor of CYP2C9 activity. Inhibition of CYP2C19 activity has also been observed.</p>
References	<ol style="list-style-type: none"> Ng, P.S. <i>et al.</i> (2003) Production of inhibitory polyclonal antibodies against cytochrome P450s. Drug Metab Pharmacokinet. 18 (3): 163-72. Larsen, B.T. <i>et al.</i> (2006) Epoxyeicosatrienoic and dihydroxyeicosatrienoic acids dilate human coronary arterioles via BK(Ca) channels: implications for soluble epoxide hydrolase inhibition. Am J Physiol Heart Circ Physiol. 290(2): H491-9. Dai, D.P. <i>et al.</i> (2013) In vitro functional characterization of 37 CYP2C9 allelic isoforms found in Chinese Han population. Acta Pharmacol Sin. 34 (11): 1449-56. Schmelzle, M. <i>et al.</i> (2011) Esophageal cancer proliferation is mediated by cytochrome P450 2C9 (CYP2C9). Prostaglandins Other Lipid Mediat. 94 (1-2): 25-33. Guo, Y. <i>et al.</i> (2005) Role of CYP2C9 and its variants (CYP2C9*3 and CYP2C9*13) in the metabolism of lornoxicam in humans. Drug Metab Dispos. 33: 749-53. Dai, D.P. <i>et al.</i> (2014) CYP2C9 polymorphism analysis in Han Chinese populations: building the largest allele frequency database. Pharmacogenomics J. 14 (1): 85-92. Schmidt, A. <i>et al.</i> (2011) Differential expression of glutamine synthetase and cytochrome P450 isoforms in human hepatoblastoma. Toxicology. 281: 7-14. Malaplate-Armand, C. <i>et al.</i> (2005) Down-regulation of astroglial CYP2C, glucocorticoid receptor and constitutive androstane receptor genes in response to cocaine in human U373 MG astrocytoma cells. Toxicol Lett. 159: 203-11. Guo, Y. <i>et al.</i> (2005) Catalytic activities of human cytochrome P450 2C9*1, 2C9*3 and 2C9*13. Xenobiotica. 35: 853-61. Strick-Marchand, H. <i>et al.</i> (2015) A novel mouse model for stable engraftment of a human immune system and human hepatocytes. PLoS One. 10 (3): e0119820. Dai, D.P. <i>et al.</i> (2015) Identification and Functional Assessment of a New CYP2C9 Allelic Variant CYP2C9*59. Drug Metab Dispos. 43 (8): 1246-9.
Further Reading	<ol style="list-style-type: none"> Werck-Reichhart, D. and Feyereisen, R. (2000) Protein family review Cytochromes P450: a success story. Genome Biology. 1: 1-9
Storage	<p>Store at -20°C. Ship at +4°C.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10194 available at: 10194: https://www.bio-rad-antibodies.com/uploads/MSDS/10194.pdf

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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