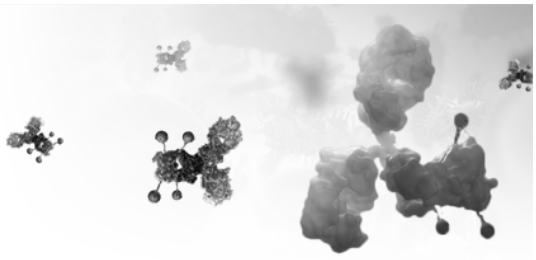

Anti-CYP2C19 polyclonal antibody (CPBT-67708RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product recognises human cytochrome p450 2C19 (CYP2C19). P450 enzymes are divided into two groups: steroidogenic and xenobiotic. The latter group is comprised of three families 1, 2 and 3. The xenobiotic p450s are involved in most oxidative drug metabolism. 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. The CYP2C19 p450 is reported to be genetically polymorphic which gives rise to populations which are genetically deficient in CYP2C19. is a neutralising antibody which is a specific and potent inhibitor of CYP2C19.
Specificity	CYP2C19
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	FA
Format	Serum - liquid
Size	50 µl
Preservative	None
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.

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GENE INFORMATION

Gene Name	CYP2C19 cytochrome P450, family 2, subfamily C, polypeptide 19 [Homo sapiens (human)]
Official Symbol	CYP2C19
Synonyms	CYP2C19; cytochrome P450, family 2, subfamily C, polypeptide 19; CPCJ; CYP2C; P450C2C; CYPIIC17; CYPIIC19; P450IIC19; cytochrome P450 2C19; cytochrome P450-11A; cytochrome P450-254C; cytochrome P-450 II C; microsomal monooxygenase; xenobiotic monooxygenas
Entrez Gene ID	1557
Protein Refseq	NP_000760
UniProt ID	P33261
Chromosome Location	10q24
Pathway	Arachidonic acid metabolism; Biological oxidations; CYP2E1 reactions; Chemical carcinogenesis; Cytochrome P450 - arranged by substrate type; Defective CYP11A1 causes Adrenal insufficiency, congenital, with 46,XY sex reversal (AICSR); Defective CYP11B1 causes Adrenal hyperplasia 4 (AH4); Defective CYP11B2 causes Corticosterone methyloxidase 1 deficiency (CMO-1 deficiency);
Function	(R)-limonene 6-monooxygenase activity; (S)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; arachidonic acid epoxygenase activity; enzyme binding; heme binding; iron ion binding; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; oxygen binding; steroid hydroxylase activity;

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