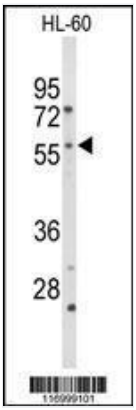
# CYP2C19 Antibody – Rabbit Polyclonal

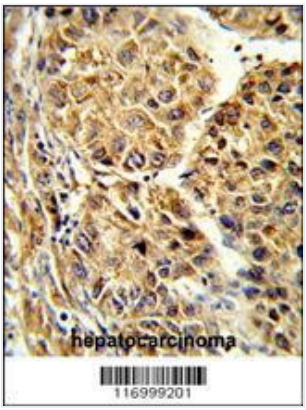
## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | CYP2C19, Polyclonal Antibody |
| **Full Product Name** | CYP2C19, NT (CYP2C19, Cytochrome P450 2C19, (R)-limonene 6-monooxygenase, (S)-limonene 6-monooxygenase, (S)-limonene 7-monooxygenase, CYPIIC17, CYPIIC19, Cytochrome P450-11A, Cytochrome P450-254C, Mephenytoin 4-hydroxylase) (MaxLight 650) |
| **Product Gene Name** | anti-CYP2C19 antibody |
| **Product Synonym Names** | CYP2C19; Cytochrome P450 2C19; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; CYPIIC17; CYPIIC19; Cytochrome P450-11A; Cytochrome P450-254C; Mephenytoin 4-hydroxylase |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650. |
| **Purity/Purification** | Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 52kDa |
| **Chromosome Location** | Chromosome: 10; NC_000010.10 (96522463..96612671). Location: 10q24 |
| **OMIM** | 124020 |
| **3D Structure** | ModBase 3D Structure for P33261 |
| **Immunogen** | CYP2C19 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88~117 amino acids from the N-terminal region of human CYP2C19. |
| **Conjugate** | MaxLight650 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CYP2C19 antibody** | Antibodies; Enzymes; Cytochrome |
| **Applications Tested/Suitable for anti-CYP2C19 antibody** | Immunofluorescence (IF), FLISA, Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-CYP2C19 antibody** | IF: 1:10-50<br>FLISA: 1:1,000<br>IHC: 1:50-100<br>WB: 1:50-100<br>Applications are based on unconjugated antibody. |

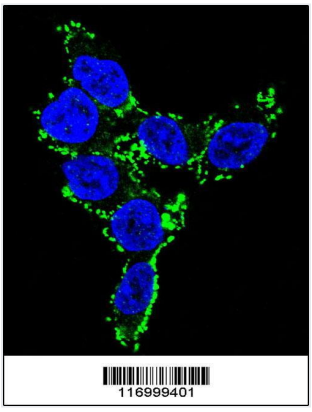
| | |
|---|---|
| **Related Product Information for anti-CYP2C19 antibody** | CYP2C19 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within its gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. |
| **Product References and Citations for anti-CYP2C19 antibody** | Shuldiner, A.R., JAMA 302 (8), 849-857 (2009). Nelson, D.R., Pharmacogenetics 14 (1), 1-18 (2004). |
| **Other Notes** | Small volumes of anti-CYP2C19 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CYP2C19 purchase** | MBS6290504 is an antibody targeting CYP2C19. Also known as CYP2C19, NT (CYP2C19, Cytochrome P450 2C19, (R)-limonene 6-monooxygenase, (S)-limonene 6-monooxygenase, (S)-limonene 7-monooxygenase, CYPIIC17, CYPIIC19, Cytochrome P450-11A, Cytochrome P450-254C, Mephenytoin 4-hydroxylase) (MaxLight 650). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-CYP2C19 antibody**
Western blot analysis of CYP2C19 Antibody (N-term) in HL-60 cell line lysates (35ug/lane). CYP2C19 (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-CYP2C19 antibody**
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with CYP2C19 Antibody (N-term),which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




**Immunofluorescence (IF) of anti-CYP2C19 antibody**
Confocal immunofluorescent analysis of CYP2C19 Antibody (N-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2C19. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 4503219 |
| **NCBI GeneID** | 1557 |

| | |
|---|---|
| **NCBI Accession #** | NP_000760.1 |
| **UniProt Primary Accession #** | P33261 |
| **UniProt Secondary Accession #** | P33259; Q8WZB1; Q8WZB2; Q9UCD4 |
| **UniProt Related Accession #** | P33261 |
| **GenBank Nucleotide #** | NM_000769.1 |
| **NCBI Official Full Name** | cytochrome P450 2C19 |
| **NCBI Official Synonym Full Names** | cytochrome P450, family 2, subfamily C, polypeptide 19 |
| **NCBI Official Symbol** | CYP2C19 |
| **NCBI Official Synonym Symbols** | CPCJ; CYP2C; P450C2C; P450IIC19 |
| **UniProt Protein Name** | Cytochrome P450 2C19 |
| **UniProt Synonym Protein Names** | (R)-limonene 6-monooxygenase (EC:1.14.13.80); (S)-limonene 6-monooxygenase (EC:1.14.13.48); (S)-limonene 7-monooxygenase (EC:1.14.13.49); CYPIIC17; CYPIIC19; Cytochrome P450-11A; Cytochrome P450-254C; Mephenytoin 4-hydroxylase |
| **Protein Family** | Cytochrome |
| **UniProt Gene Name** | CYP2C19 |
| **UniProt Entry Name** | CP2CJ_HUMAN |
| **NCBI Protein Information** | cytochrome P450 2C19; CYPIIC17; CYPIIC19; cytochrome P450-11A; cytochrome P450-254C; cytochrome P-450 II C; microsomal monooxygenase; xenobiotic monooxygenase; mephenytoin 4-hydroxylase; mephenytoin 4'-hydroxylase; S-mephenytoin 4-hydroxylase; (R)-limonen |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cyp2c19/6290504