

## Rabbit anti-Human CYP3A4 Polyclonal Antibody | anti-CYP3A4 antibody

CYP3A4 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                    |
|-----------|--------|------------|-------------------------------------------------|
| AAA232451 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, ELISA |

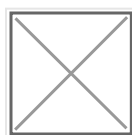
### PRODUCT SYNONYMS

CYP3A4; Polyclonal Antibody; CYP3A4 Antibody; Cytochrome P450 3A4; 1; 8-cineole 2-exo-monooxygenase; Albendazole monooxygenase; Albendazole sulfoxidase; CYP3A3; CYP3A4; Cholesterol 25-hydroxylase; CYP3A3; anti-CYP3A4 antibody

### PRODUCT SPECIFICATIONS

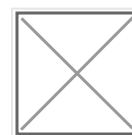
|                                                  |                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                         |
| Reactivity                                       | Human                                                                                                          |
| Clonality                                        | Polyclonal                                                                                                     |
| Isotype                                          | IgG                                                                                                            |
| Purity/Purification                              | >95%, Protein G purified                                                                                       |
| Form/Format                                      | Liquid                                                                                                         |
| Sequence Length                                  | 502                                                                                                            |
| Applicable Applications for anti-CYP3A4 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA                                                     |
| Immunogen                                        | Recombinant Human Cytochrome P450 3A4 protein (259-441AA)                                                      |
| Preservative                                     | 0.03% Proclin 300                                                                                              |
| Constituents                                     | 50% Glycerol, 0.01M PBS, PH 7.4                                                                                |
| Conjugation                                      | Non-conjugated                                                                                                 |
| Santa Cruz Alternative                           | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-27639                                  |
| Preparation and Storage                          | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

### IMAGES



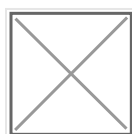
#### WB (Western Blot)

Western Blot Positive WB detected in: Mouse heart tissue, Mouse brain tissue All lanes: CYP3A4 antibody at 2.8ug/ml Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 58 kDa Observed band size: 58 kDa



#### IF (Immunofluorescence)

Immunofluorescent analysis of HepG2 cells using AAA232451 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human small intestine tissue using AAA232451 at dilution of 1:100

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CYP3A4 antibody | Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulfoxidation, midazolam 1'-hydroxylation and midazolam 4-hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Acts as a 1, 8-cineole 2-exo-monooxygenase. The enzyme also hydroxylates etoposide (PubMed: 11159812). Catalyzes 4-beta-hydroxylation of cholesterol. May catalyze 25-hydroxylation of cholesterol in vitro (PubMed: 21576599). |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| NCBI GI #                        | 322302351                                                                 |
| NCBI GeneID                      | 1576                                                                      |
| NCBI Accession #                 | NP_001189784.1                                                            |
| NCBI GenBank Nucleotide #        | NM_001202855.2                                                            |
| UniProt Accession #              | P08684; P05184; Q16757; Q9UK50                                            |
| Molecular Weight                 | 57,343 Da                                                                 |
| NCBI Official Full Name          | cytochrome P450 3A4 isoform 2                                             |
| NCBI Official Synonym Full Names | cytochrome P450 family 3 subfamily A member 4                             |
| NCBI Official Symbol             | CYP3A4                                                                    |
| NCBI Official Synonym Symbols    | HLP; CP33; CP34; CYP3A; NF-25; CYP3A3; P450C3; CYP11A3; CYP11A4; P450PCN1 |
| NCBI Protein Information         | cytochrome P450 3A4                                                       |
| UniProt Protein Name             | Cytochrome P450 3A4                                                       |
| UniProt Gene Name                | CYP3A4                                                                    |
| UniProt Synonym Gene Names       | CYP3A3                                                                    |
| UniProt Entry Name               | CP3A4_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.