

## Rabbit CYP2A7 Polyclonal Antibody | anti-CYP2A7 antibody

CYP2A7 Antibody (Center)

| CATALOG # | HOST   | REACTIVITY                                       | APPLICATIONS                                                                |
|-----------|--------|--------------------------------------------------|-----------------------------------------------------------------------------|
| AAA286617 | Rabbit | Human (Predicted Reactivity: Rat, Mouse, Rabbit) | Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

CYP2A7; Polyclonal Antibody; CYP2A7 Antibody (Center); Cytochrome P450 2A7; CYP11A7; Cytochrome P450 11A4; anti-CYP2A7 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                       |
| Reactivity                                       | Human (Predicted Reactivity: Rat, Mouse, Rabbit)                                                                                                                             |
| Clonality                                        | Polyclonal                                                                                                                                                                   |
| Isotype                                          | Rabbit Ig                                                                                                                                                                    |
| Specificity                                      | This CYP2A7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-148 amino acids from the Central region of human CYP2A7.        |
| Purity/Purification                              | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                      | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                    | Vial Concentration: 0.46 (varies by lot)                                                                                                                                     |
| Sequence Positions                               | 121-148                                                                                                                                                                      |
| Sequence Length                                  | 494                                                                                                                                                                          |
| Applicable Applications for anti-CYP2A7 antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                              |
| Antigen Type                                     | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                   | HUMAN                                                                                                                                                                        |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |

### IMAGES



#### FCM/FACS (Flow Cytometry)

CYP2A7 Antibody (Center) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



#### IHC (Immunohistochemistry)

CYP2A7 antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CYP2A7 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



#### WB (Western Blot)

CYP2A7 Antibody (Center) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the CYP2A7 antibody detected the CYP2A7 protein (arrow).

### ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CYP2A7 antibody | CYP2A7 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; its substrate has not yet been determined. CYP2A7, which produces two transcript variants, is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. |
| Product Categories/Family for anti-CYP2A7 antibody   | Cardiovascular; Metabolism; Signal transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                           | Fukami, T., et al. Pharmacogenomics J. 6(6):401-412(2006) Nelson, D.R., et al. Pharmacogenetics 14(1):1-18(2004) Oscarson, M., et al. Hum. Mutat. 20(4):275-283(2002) Godoy, W., et al. Carcinogenesis 23(4):611-616(2002) Koskela, S., et al. Biochem. Pharmacol. 57(12):1407-1413(1999)                                                                                                                                                                                                               |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| NCBI GI #                        | 15147330                                              |
| NCBI GeneID                      | 1549                                                  |
| NCBI Accession #                 | NP_000755.2; NP_085079.2                              |
| NCBI GenBank Nucleotide #        | NM_000764.2                                           |
| UniProt Accession #              | P20853; Q13121                                        |
| Molecular Weight                 | 56425                                                 |
| NCBI Official Full Name          | cytochrome P450 2A7 isoform 1                         |
| NCBI Official Synonym Full Names | cytochrome P450, family 2, subfamily A, polypeptide 7 |
| NCBI Official Symbol             | CYP2A7                                                |
| NCBI Official Synonym Symbols    | CPA7; CPAD; CYP2A; CYP11A7; P450-IIA4                 |
| NCBI Protein Information         | cytochrome P450 2A7                                   |
| UniProt Protein Name             | Cytochrome P450 2A7                                   |
| UniProt Gene Name                | CYP2A7                                                |
| UniProt Entry Name               | CP2A7_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/polyclonal/cyp2a7-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/286617>