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Anti-CYP2U1 Antibody

Catalog # ABO11328

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q7Z449
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cytochrome P450 2U1(CYP2U1) detection. Tested with WB, IHC-P, ICC in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	113612
Other Names	Cytochrome P450 2U1, 1.14.14.1, CYP2U1
Calculated MW	61987
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Immunocytochemistry , 0.5-1 □g/ml, Human, - Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Microsome membrane .
Tissue Specificity	Widely expressed with stronger expression in thymus, heart and cerebellum. .
Source	Eukaryota
Protein Name	Cytochrome P450 2U1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CYP2U1(457-473aa EKPEDFYPNRFLDDQGQ).
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

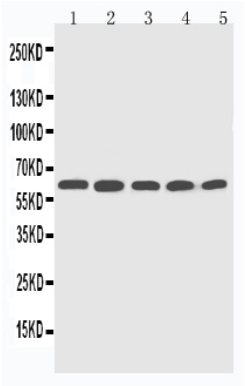
Name	CYP2U1 {ECO:0000303|PubMed:14660610, ECO:0000312|HGNC:HGNC:20582}
Function	A cytochrome P450 monooxygenase involved in the metabolism of arachidonic acid and its conjugates (PubMed:14660610, PubMed:24563460). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:14660610, PubMed:24563460). Acts as an omega and omega-1 hydroxylase for arachidonic acid and possibly for other long chain fatty acids. May modulate the arachidonic acid signaling pathway and play a role in other fatty acid signaling processes (PubMed:14660610, PubMed:24563460). May down-regulate the biological activities of N-arachidonoyl-serotonin, an endocannabinoid that has anti-nociceptive effects through inhibition of fatty acid amide hydrolase FAAH, TRPV1 receptor and T-type calcium channels. Catalyzes C-2 oxidation of the indole ring of N-arachidonoyl-serotonin forming a less active product 2-oxo-N-arachidonoyl-serotonin (PubMed:24563460).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi- pass membrane protein. Mitochondrion inner membrane; Multi-pass membrane protein
Tissue Location	Widely expressed with stronger expression in thymus, heart and cerebellum.

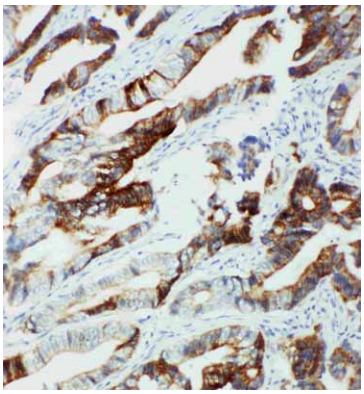
Background

CYP2U1(Cytochrome P450, Family 2, Subfamily U, Polypeptide 1), is a protein that in humans is encoded by the CYP2U1 gene. Members of the P450 enzyme family have roles in the tissue-specific conversion of substrates into locally active hormones, vitamins, and signaling molecules, including arachidonic acid derivatives known as eicosanoids. The International Radiation Hybrid Mapping Consortium mapped the CYP2U1 gene to chromosome 4.Chuang et al.(2004) stated that CYP2U1 maps to 4q25. Using recombination experiments in Sf9 insect cells, Chuang et al.(2004) found that CYP2U1 metabolized arachidonic acid, docosahexaenoic acid(DHA), and other long chain fatty acids. Chuang et al.(2004) suggested that CYP2U1 may play a role in brain and immune functions.

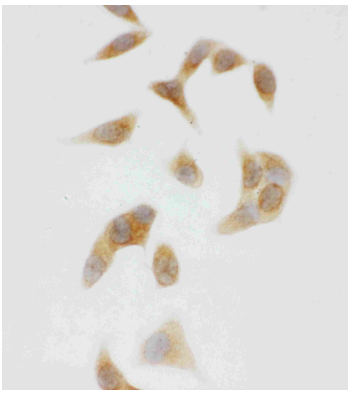
Images

Anti-CYP2U1 antibody, ABO11328, Western blottingLane 1: HELA Cell LysateLane 2: MCF-7 Cell LysateLane 3: MM453 Cell LysateLane 4: COLO320 Cell LysateLane 5: HT1080 Cell Lysate





Anti-CYP2U1 antibody, ABO11328, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-CYP2U1 antibody, ABO11328, ICCICC: HELA Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.