Rabbit anti-Human, Mouse Cytochrome P450 2R1 Polyclonal Antibody | anti-CYP2R1 antibody

Cytochrome P450 2R1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324266	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Cytochrome P450 2R1; Polyclonal Antibody; Cytochrome P450 2R1 Antibody; CP2R1_HUMAN; CYP2R1; Cytochrome P450 family 2 R1; Cytochrome P450 family 2 subfamily R polypeptide 1; EC 1.14.13.15; MGC4663; Vitamin D 25 hydroxylase; Vitamin D 25-hydroxylase; anti-CYP2R1 antibody

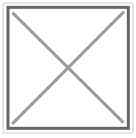
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Cytochrome P450 2R1 antibody detects endogenous levels of total Cytochrome P450 2R1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	501
Applicable Applications for anti-CYP2R1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endoplasmic Reticulum Membrane. Microsome Membrane.
Predicted Cross Reactivity	**Pig, Zebrafish, Horse, Sheep, Rabbit, Dog, Chicken**
Similarity	Pig (100%), Zebrafish (83%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IF (Immunofluorescence)
AAA324266 staining HT29 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

WB (Western Blot)
Western blot analysis of extracts from HT-29 cells, using Cytochrome P450 2R1 antibody.The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA324266 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP2R1 antibody	Function: Has a D-25-hydroxylase activity on both forms of vitamin D, vitamin D2 and D3. Subunit Structure: Homodimer. Similarity: Belongs to the cytochrome P450 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	45267826
NCBI GeneID	120227
NCBI Accession #	NP_078790.2
NCBI GenBank Nucleotide #	NM_024514.4
UniProt Accession #	Q6VVX0; Q2M3H3; Q5RT65
Molecular Weight	Observed: 52 kD Predicted: 58 kDa
NCBI Official Full Name	vitamin D 25-hydroxylase
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily R member 1
NCBI Official Symbol	CYP2R1
NCBI Protein Information	vitamin D 25-hydroxylase
UniProt Protein Name	Vitamin D 25-hydroxylase
UniProt Gene Name	**CYP2R1**

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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