## For Research Use Only

## CYP2R1 Recombinant antibody

Catalog Number:84378-5-RR



**Basic Information** 

Catalog Number: GenBank Accession Number: 84378-5-RR BC104909

 84378-5-RR
 BC104909

 Size:
 GeneID (NCBI):

 1000 μ g/ml
 120227

 Source:
 UNIPROT ID:

Source: UNIPROT ID: Recommended Dilutions: Rabbit Q6VVXO WB 1:1000-1:4000

Isotype: Full Name:

IgG cytochrome P450, family 2, subfamily

R, polypeptide 1

Immunogen Catalog Number: R, polypeptide 1
AG12873 Calculated MW: 501 aa, 57 kDa

Observed MW: 57 kDa

**Applications** 

Tested Applications: WB, FC (Intra), ELISA Species Specificity:

human

**Positive Controls:** 

WB: HeLa cells, HepG2 cells, HuH-7 cells, human

**Purification Method:** 

Protein A purification

CloneNo.:

241072F11

placenta tissue

## **Background Information**

CYP2R1 is a member of the cytochrome P450 superfamily of enzymes which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids, and other lipids. CYP2R1 primarily functions as a 25-hydroxylase of vitamin D, responsible for converting vitamin D to 25-hydroxyvitamin D (25-OH-D), affecting the production of the active hormone 1,25(OH)2D (PMID: 12867411). CYP2R1 enzyme is a key vitamin D 25-hydroxylase, mutations in CYP2R1 are associated with Rickets vitamin D-dependent 1B(PMID: 25942481, 15128933).

Storage

Storage:

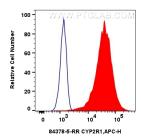
Store at -20°C. Stable for one year after shipment.

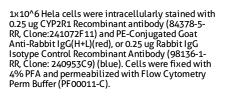
Storage Buffer:

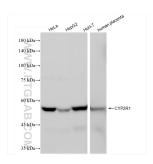
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

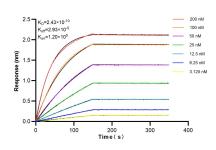
## **Selected Validation Data**







Various lysates were subjected to SDS PAGE followed by western blot with 84,378-5-RR (CYP2R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLL) kinetic assays of 84378-5-RR against Human CYP2R1 were performed. The affinity constant is 0.243 nM.