For Research Use Only

CYP2R1 Recombinant antibody, PBS Only (Detector)

Catalog Number:84378-5-PBS

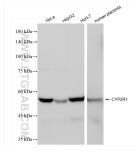


Basic Information	Catalog Number: 84378-5-PBS	GenBank Accession Number: BC 104909	Purification Method: Protein A purification			
	Size: 100ug, Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI):	CloneNo.:			
		120227 241072F11	241072F11			
		UNIPROT ID: Q6VVX0 Full Name: cytochrome P450, family 2, subfamily R, polypeptide 1				
				Immunogen Catalog Number: AG12873	Calculated MW: 501 aa, 57 kDa	
					Observed MW: 57 kDa	
				Applications	Tested Applications: WB, FC (Intra), Cytometric bead array, Indirect ELISA	
	Species Specificity: human					
	Product Information	84378-5-PBS targets CYP2R1 as part	of a matched antibody pair:			
	MP01251-2: 84378-3-PBS capture and 84378-5-PBS detection (validated in Cytometric bead array)					
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.					
		s cytometry, and multiplex imaging	applications including: ELISAs, multiplex g applications.Antibody use should be			
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 -80°C. Storage Buffer: PBS Only					

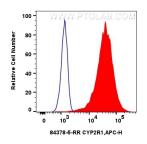
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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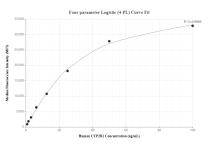
Selected Validation Data



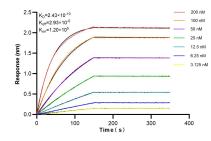
Various lysates were subjected to SDS PAGE followed by western blot with 84378-5-RR (CYP2R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84378-5-PBS in a different storage buffer formulation.



1x10^{^6} Hela cells were intracellularly stained with 0.25 ug CYP2R1 Recombinant antibody (84378-5-RR, Clone:241072F11) and PE-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84378-5-PBS in a different storage buffer



Cytometric bead array standard curve of MP01251-2, CYP2R1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84378-3-PBS. Detection antibody: 84378-5-PBS. Standard: Ag12873. Range: 0.781-100 ng/mL



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