

CoraLite®594-conjugated VPRBP

Monoclonal antibody

Catalog Number: **CL594-66392**

Basic Information

Catalog Number: CL594-66392	GenBank Accession Number: BC022792	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 9730	CloneNo.: 1A7A8
Source: Mouse	UNIPROT ID: Q9Y4B6	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: Vpr (HIV-1) binding protein	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG2184	Calculated MW: 1506 aa, 169 kDa	
	Observed MW: 169 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human	

Background Information

VprBP was first identified as a protein that can interact with HIV-1 viral protein R (PMID: 11223251). It is a component of the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex that could interact with HIV-1 virus Vpr protein and HIV-2 virus Vpx protein (PMID: 18332868; 17314515; 18606781). VprBP is a 1,507-amino acid protein that contains conserved domains, including YXXY repeats, the Lis homology motif, and WD40 repeats. Through binding to Vpr, VprBP allows Vpr to modulate the catalytic activity of the CUL4-DDB1 complex, which in turn leads to the induction of G2 phase arrest in the virus-infected cells (PMID: 17630831). Recently it has been reported that VprBP is able to regulate the p53-induced transcription and apoptotic pathway (PMID: 22184063).

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

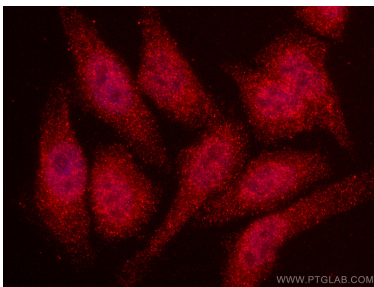
For technical support and original validation data for this product please contact:

T: 4006900926

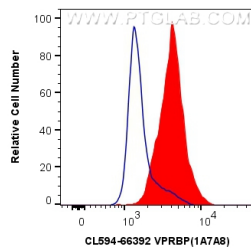
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594 VPRBP antibody (CL594-66392, Clone: 1A7A8) at dilution of 1:200.



1X10⁶ K-562 cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human VPRBP (CL594-66392, Clone:1A7A8) (red), or 0.8 ug CoraLite®594 Mouse IgG2a Isotype Control (C1.18.4) (CL594-65208, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).