

For Research Use Only

# CoraLite® Plus 488-conjugated VPRBP Polyclonal antibody

Catalog Number: CL488-11612

Featured Product



## Basic Information

**Catalog Number:**

CL488-11612

**Size:**

100ul , Concentration: 1000 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2184

**GenBank Accession Number:**

BC022792

**GeneID (NCBI):**

9730

**UNIPROT ID:**

Q9Y4B6

**Full Name:**

Vpr (HIV-1) binding protein

**Calculated MW:**

1506 aa, 169 kDa

**Observed MW:**

169 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, FC (Intra)

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF/ICC : HeLa cells,

## 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

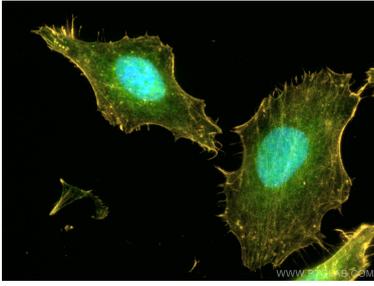
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

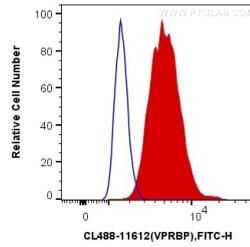
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 VPRBP antibody (CL488-11612) at dilution of 1:100, CL555-Phalloidin (orange).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human VPRBP (CL488-11612) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).