

For Research Use Only

# CoraLite® Plus 488-conjugated AHR Recombinant monoclonal antibody

Catalog Number: CL488-83369-6



## Basic Information

Catalog Number:

CL488-83369-6

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12193

GenBank Accession Number:

BC070080

GeneID (NCBI):

196

UNIPROT ID:

P35869

Full Name:

aryl hydrocarbon receptor

Calculated MW:

848 aa, 96 kDa

Purification Method:

Protein A purification

CloneNo.:

240325G9

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.4 ug per 10<sup>6</sup> cells in a  
100 µl suspension

Excitation/Emission maxima  
wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : HeLa cells,

## Background Information

The aryl hydrocarbon receptor (Ahr) is a ligand-activated transcription factor that has been largely regarded as a mediator of xenobiotic metabolism (PMID:18483242). It plays a part role in physiologic activities, including attenuation of the acute phase response, cytokine signaling, T helper (TH) 17 immune cell differentiation, modulation of NF- $\kappa$ B activity, and regulation of hormonal signaling (PMID:20423157,18540824). It also mediates transcription factor sequestering away from a gene promoter or tethering of the Ahr to a transcription factor on a promoter. AHR calculated molecular masses differ by <10%, compared with the apparent molecular masses predicted from SDS-PAGE for the two receptors (105 and 95 kDa, respectively). (PMID: 8246913)

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

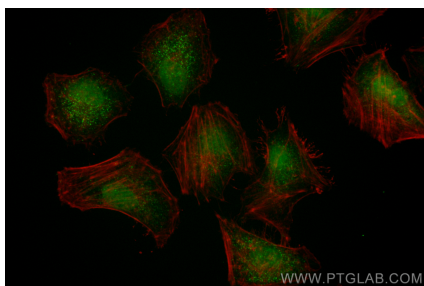
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

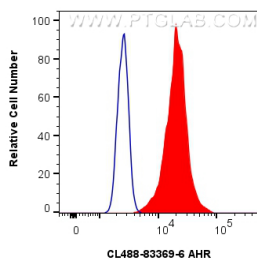
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 AHR antibody (CL488-83369-6, Clone: 240325G9) at dilution of 1:200.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4  $\mu$ g CoraLite® Plus 488-conjugated AHR Recombinant monoclonal antibody (CL488-83369-6, Clone: 240325G9) (red) or 0.4  $\mu$ g CoraLite® Plus 488 Rabbit IgG Isotype Control RecAb (CL488-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00017).