

## Aryl Hydrocarbon Receptor Rabbit mAb

Catalog No: #52159

Package Size: #52159-1 50ul #52159-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

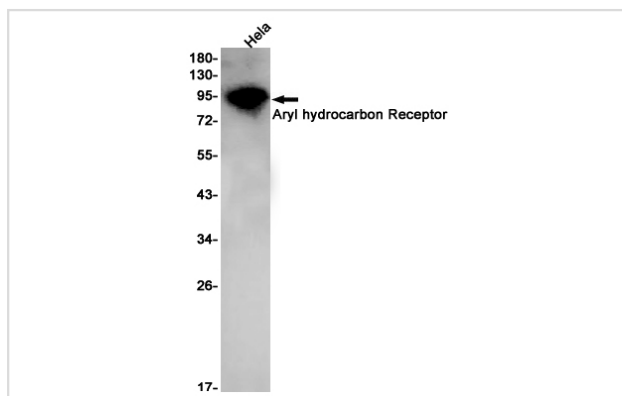
## Description

Product Name	Aryl Hydrocarbon Receptor Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S07-1H9
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IF
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human Aryl hydrocarbon Receptor
Conjugates	Unconjugated
Modification	Unmodification
Other Names	Ah receptor; AhR; Class E basic helix-loop-helix protein 76; bHLHe76; AHR;
Accession No.	Swiss-Prot:P35869GenelD:196
Uniprot	P35869
GenelD	196
Calculated MW	Calculated MW: 96 kDa; Observed MW: 100 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

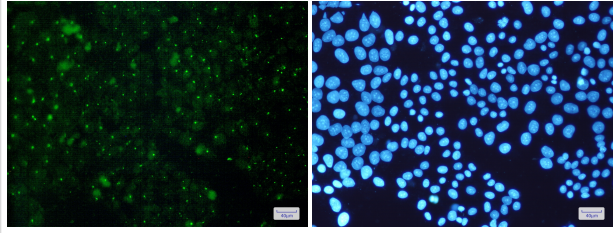
## Application Details

WB: 1/1000

## Images



Western blot detection of Aryl hydrocarbon Receptor in HeLa cell lysates using Aryl hydrocarbon Receptor Rabbit mAb(1:1000 diluted).Predicted band size:96kDa.Observed band size:100kDa.



Immunofluorescence of Aryl hydrocarbon Receptor(green) in HeLa cells using Aryl hydrocarbon Receptor Rabbit mAb at dilution 1/50, and DAPI(blue)

## Background

Swiss-Prot Acc.P35869.Ligand-activated transcriptional activator. Binds to the XRE promoter region of genes it activates. Activates the expression of multiple phase I and II xenobiotic chemical metabolizing enzyme genes (such as the CYP1A1 gene). Mediates biochemical and toxic effects of halogenated aromatic hydrocarbons. Involved in cell-cycle regulation. Likely to play an important role in the development and maturation of many tissues. Regulates the circadian clock by inhibiting the basal and circadian expression of the core circadian component PER1. Inhibits PER1 by repressing the CLOCK-ARNTL/BMAL1 heterodimer mediated transcriptional activation of PER1. The heterodimer ARNT:AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription (PubMed:28602820).

Note: This product is for in vitro research use only