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Product datasheet for TA383686S

Aryl hydrocarbon Receptor (AHR) Rabbit Monoclonal Antibody [Clone ID: R07-1H9]

Product data:

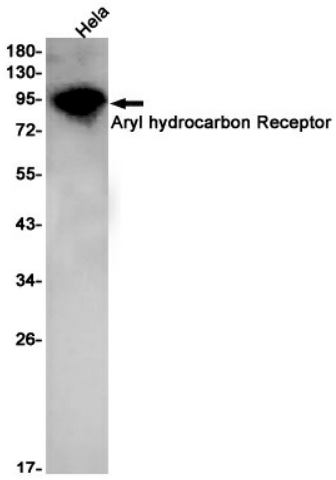
Product Type:	Primary Antibodies
Clone Name:	R07-1H9
Applications:	WB
Recommended Dilution:	WB: 1/1000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Aryl hydrocarbon Receptor
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 96 kDa; Observed MW: 100 kDa
Gene Name:	aryl hydrocarbon receptor
Database Link:	Entrez Gene 196 Human P35869

View online »

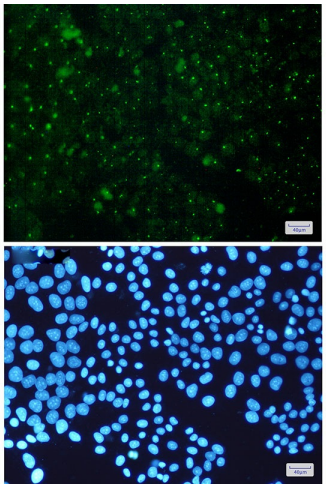
Background: Swiss-Prot Acc.P35869.Ligand-activated transcriptional activator. Binds to the XRE promoter region of genes it activates. Activates the expression of multiple phase I and II xenobiotic chemical metabolizing enzyme genes (such as the CYP1A1 gene). Mediates biochemical and toxic effects of 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).

Synonyms: AH-receptor; bHLHe76

Product images:



Western blot analysis of Aryl hydrocarbon Receptor in Hela lysates using Aryl Hydrocarbon Receptor antibody.



Immunocytochemistry analysis of Aryl hydrocarbon Receptor(green) in Hela using Aryl hydrocarbon Receptor antibody,and DAPI(blue)