

Product datasheet for **TA383686M**

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 |



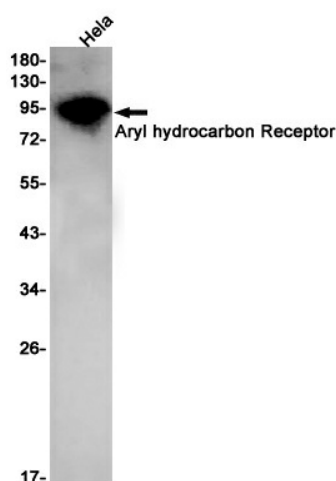
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Background:

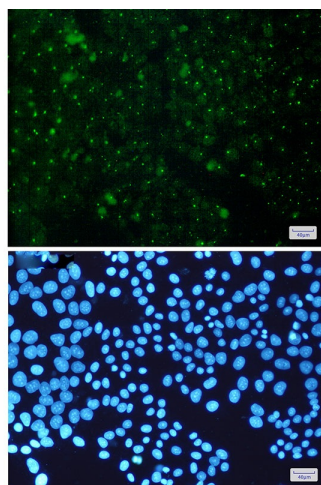
Swiss-Prot Acc.P35869.Ligand-activated transcriptional activator. Binds to the XRE promoter region of genes it activates. Activates the expression of multiple phase I and II xenobiotic chemical metabolizing enzyme genes (such as the CYP1A1 gene). Mediates biochemical and toxic effects of halogenated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