

Product Name: KD-Validated Aryl Hydrocarbon Receptor Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01623

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 96.1kDa

Antigen Information

Gene Name	AHR
Alternative Names	AHR; Aryl Hydrocarbon Receptor; BHLHe76; Class E Basic Helix-Loop-Helix Protein 76; Ah Receptor; BHLHE76; Aromatic Hydrocarbon Receptor; AH-Receptor; RP85; AhR
Gene ID	196.0
SwissProt ID	P35869
Immunogen	A synthesized peptide derived from human AhR

Background

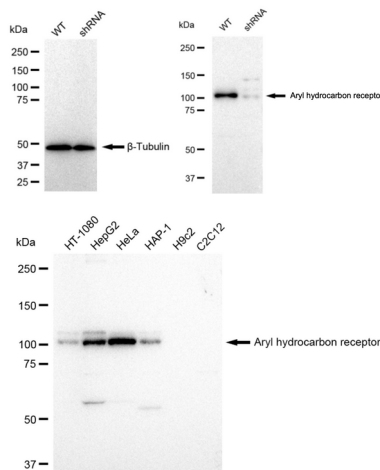
The protein encoded by this gene is a ligand-activated helix-loop-helix transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing

enzymes such as cytochrome P450. Before ligand binding, the encoded protein is sequestered in the cytoplasm; upon ligand binding, this protein moves to the nucleus and stimulates transcription of target genes. [provided by RefSeq, Sep 2015]

Research Area

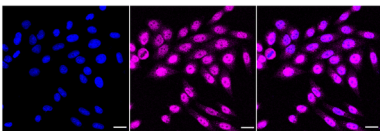
Epigenetics and Nuclear Signaling, Neuroscience

Image Data

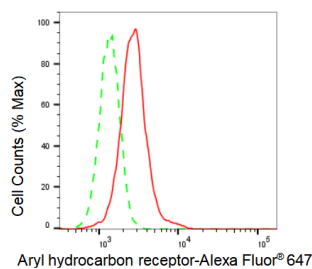


Western blotting analysis using aryl hydrocarbon receptor antibody (KVA01623). Aryl hydrocarbon receptor expression in wild type (WT) and aryl hydrocarbon receptor shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with aryl hydrocarbon receptor antibody (KVA01623, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Western blotting analysis using Aryl hydrocarbon receptor antibody (KVA01623). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Aryl hydrocarbon receptor antibody (KVA01623, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Aryl hydrocarbon receptor antibody (KVA01623, 1:1,000). Nuclei were stained blue with DAPI; Aryl hydrocarbon receptor was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Aryl hydrocarbon receptor expression in HepG2 cells using Aryl hydrocarbon receptor antibody (KVA01623, 1:2,000). Green, isotype control; red, Aryl hydrocarbon receptor.