

ARG41570 anti-Aryl Hydrocarbon Receptor antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Aryl Hydrocarbon Receptor
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Aryl Hydrocarbon Receptor
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human Aryl Hydrocarbon Receptor. (AFLNKFQNGVLNETYPAELNNINNTQTTHLQPLHH)
Conjugation	Un-conjugated
Alternate Names	Aryl hydrocarbon receptor; AhR; Ah receptor; bHLHe76; Class E basic helix-loop-helix protein 76

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	1:200 - 1:1000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

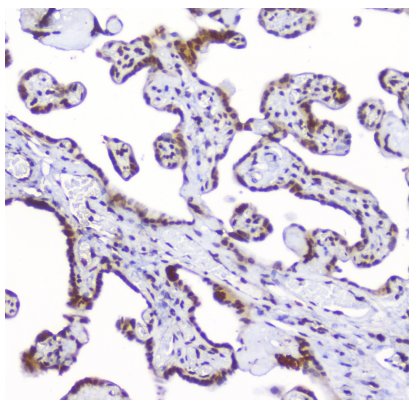
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

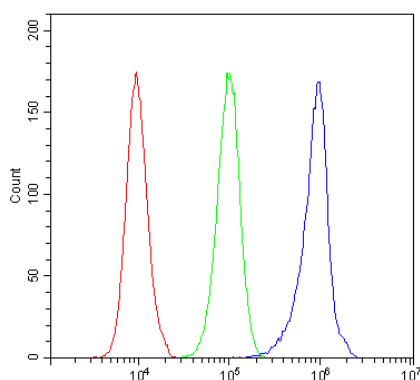
Gene Symbol	AHR
Gene Full Name	aryl hydrocarbon receptor
Background	The protein encoded by this gene is a ligand-activated helix-loop-helix transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing 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]
Function	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. [UniProt]
Calculated Mw	96 kDa
Cellular Localization	Cytoplasm. Nucleus. Note=Initially cytoplasmic; upon binding with ligand and interaction with a HSP90, it translocates to the nucleus. [UniProt]

Images



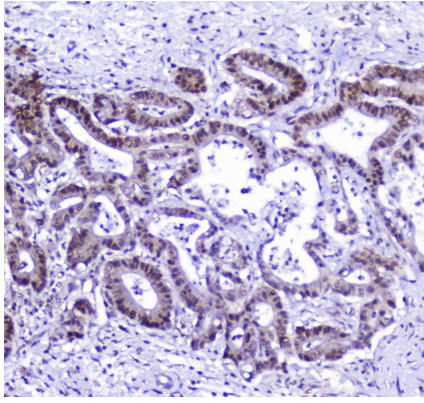
ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 µg/ml dilution, overnight at 4°C.



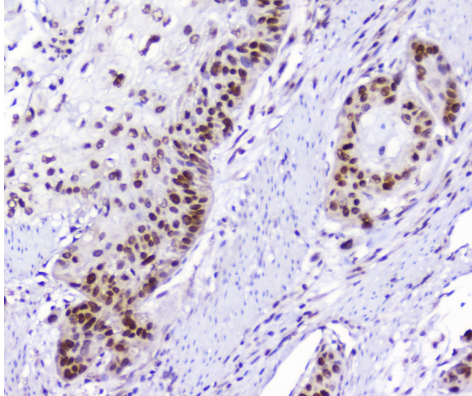
ARG41570 anti-Aryl Hydrocarbon Receptor antibody FACS image

Flow Cytometry: U87 cells were blocked with 10% normal Goat serum and then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



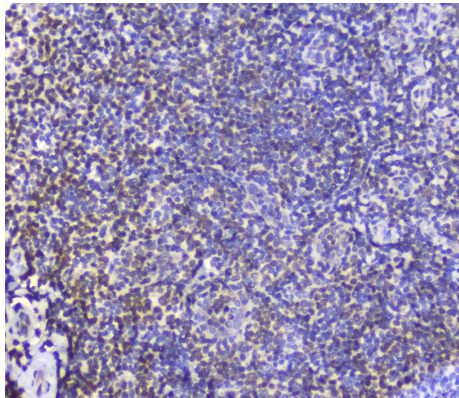
ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cholangiocarcinoma tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 µg/ml dilution, overnight at 4°C.



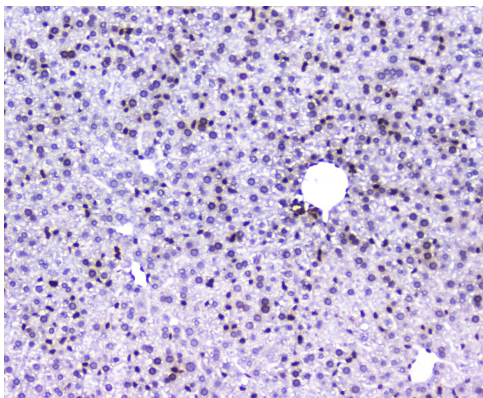
ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human oesophagus squama cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 µg/ml dilution, overnight at 4°C.



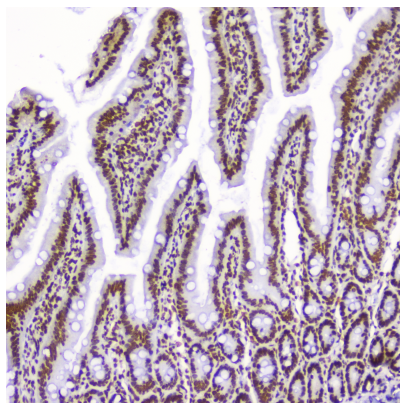
ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 µg/ml dilution, overnight at 4°C.



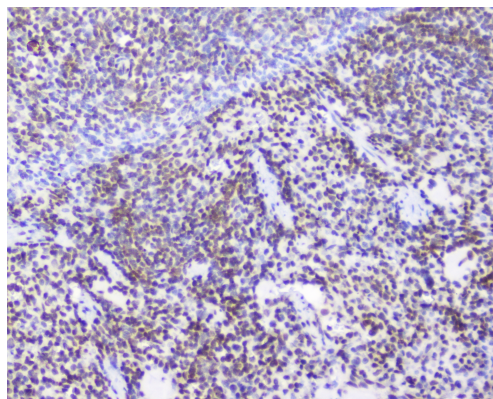
ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse liver tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 µg/ml dilution, overnight at 4°C.



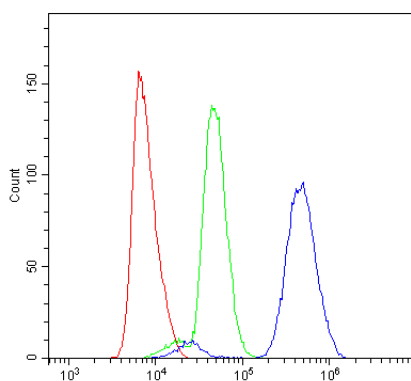
ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat small intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG41570 anti-Aryl Hydrocarbon Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat spleen tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody at 2 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG41570 anti-Aryl Hydrocarbon Receptor antibody FACS image

Flow Cytometry: U937 cells were blocked with 10% normal Goat serum and then stained with ARG41570 anti-Aryl Hydrocarbon Receptor antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.