

# IHC*easy* AHR Ready-To-Use IHC Kit

Catalog Number: **KHC1055**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Polyclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

| Component                | Size               | Concentration |
|--------------------------|--------------------|---------------|
| Antigen Retrieval Buffer | 100 mL             | 50×           |
| Washing Buffer           | 100 mL ×2          | 20×           |
| Blocking Buffer          | 5 mL               | RTU           |
| Primary Antibody         | 5 mL               | RTU           |
| Secondary Antibody       | 5 mL               | RTU           |
| Chromogen Component A    | 0.2 mL             | RTU           |
| Chromogen Component B    | 4 mL               | RTU           |
| Signal Enhancer          | 5 mL               | RTU           |
| Counter Staining Reagent | 5 mL               | RTU           |
| Mounting Media           | 5 mL               | RTU           |
| Control Slide            | 1 slide (Optional) | FFPE          |
| Datasheet                | 1 Copy             |               |
| Manual                   | 1 Copy             |               |

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

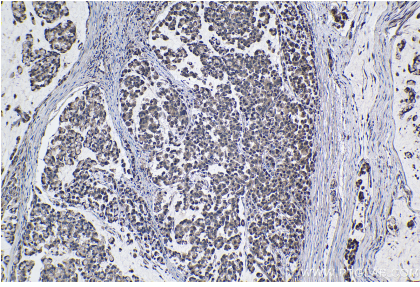
## Background

The aryl hydrocarbon receptor (AhR) is a ligand-activated transcription factor that has been largely regarded as a mediator of xenobiotic metabolism. It plays a part role in physiologic activities, including attenuation of the acute phase response, cytokine signaling, T helper (TH)17 immune cell differentiation, modulation of NF- $\kappa$ B activity, and regulation of hormonal signaling. It also mediates transcription factor sequestering away from a gene promoter or tethering of the AhR to a transcription factor on a promoter.

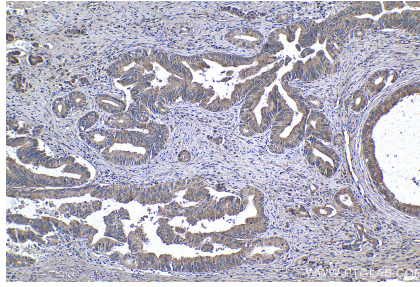
## Synonyms

Ah receptor, AHR, aryl hydrocarbon receptor, bHLHe76

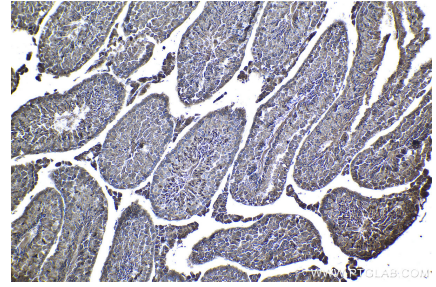
## Selected Validation Data



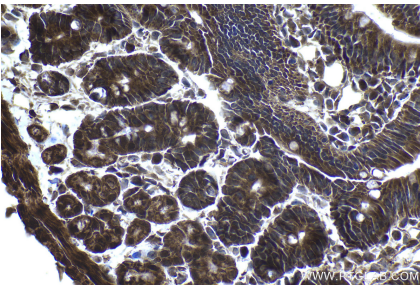
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using KHC1055 (AHR IHC Kit).



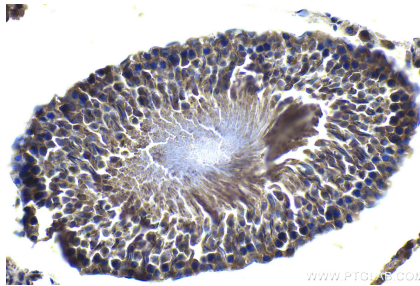
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using KHC1055 (AHR IHC Kit).



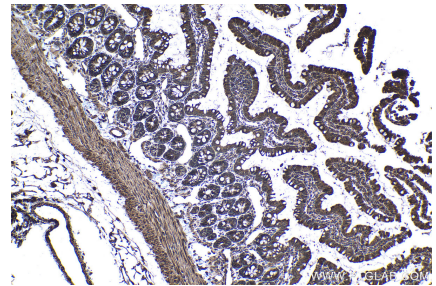
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC1055 (AHR IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using KHC1055 (AHR IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using KHC1055 (AHR IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using KHC1055 (AHR IHC Kit).