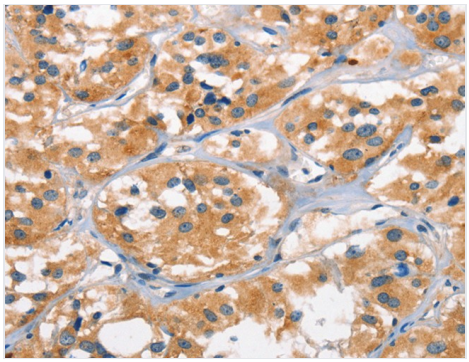
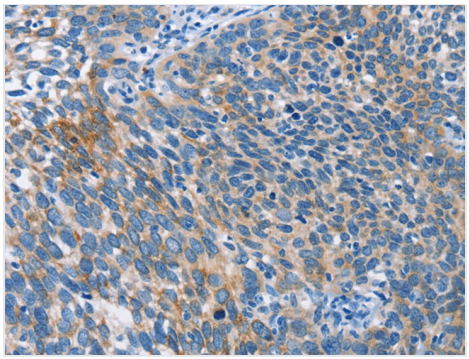
AHR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AHR, Polyclonal Antibody
Full Product Name	AHR Polyclonal Antibody
Product Gene Name	anti-AHR antibody
Product Synonym Names	bHLHe76
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	2.2mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	96,147 Da
OMIM	600253
Immunogen	Synthetic peptide of human AHR
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
Product Categories/Family for anti-AHR antibody	Epigenetics
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AHR antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-AHR antibody	IHC: 1:50-1:200
Related Product Information for anti-AHR antibody	This gene encodes a ligand-activated 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. Its ligands included a variety of aromatic hydrocarbons.
Other Notes	Small volumes of anti-AHR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AHR purchase	MBS2518915 is an antibody targeting AHR. Also known as AHR Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-AHR antibody
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using AHR Polyclonal Antibody at dilution 1:50



Immunohistochemistry (IHC) of anti-AHR antibody
Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using AHR Polyclonal Antibody at dilution 1:50

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AHR. It may not necessarily be applicable to this product.

NCBI GI #	3041653
NCBI GeneID	196
NCBI Accession #	P35869.2
UniProt Secondary Accession #	Q13728; Q13803; Q13804; A4D130
UniProt Related Accession #	P35869
NCBI Official Full Name	Aryl hydrocarbon receptor
NCBI Official Synonym Full Names	aryl hydrocarbon receptor
NCBI Official Symbol	AHR
NCBI Official Synonym Symbols	bHLHe76
UniProt Protein Name	Aryl hydrocarbon receptor
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 76; bHLHe76
Protein Family	Aldehyde reductase
UniProt Gene Name	AHR
UniProt Synonym Gene Names	BHLHE76; Ah receptor; AhR; bHLHe76
UniProt Entry Name	AHR_HUMAN
NCBI Protein Information	aryl hydrocarbon receptor; AH-receptor; ah receptor; aromatic hydrocarbon receptor; class E basic helix-loop-helix protein 76

UniProt Comments for AHR	AHR: a nuclear receptor for aryl hydrocarbons involved in xenobiotic metabolism, cell cycle regulation, and development in response to both endogenous and environmental signals. AhR was initially identified as a receptor for dioxins, which are environmental pollutants generated by waste incineration and other industrial processes . AhR ligands include polycyclic aromatic hydrocarbons, including the carcinogen benzo(a)pyrene and other components of cigarette smoke. Naturally occurring AhR ligands include flavonoids, which are aromatic plant secondary compounds commonly found in vegetables and fruits. Cytoplasmic aryl hydrocarbon receptors are found in protein complexes with heat shock proteins. Upon ligand binding, AhR dissociates from heat shock proteins and translocate to the nucleus where it dimerizes with AhR nuclear translocator (ARNT, HIF-1b). The AhR/ARNT heterodimer binds to nuclear xenobiotic response elements to control the expression of genes associated with xenobiotic metabolism, including several cytochrome P450 genes. AhR is ubiquitously expressed and is thought to play a role in regulation of cell proliferation and differentiation, cytokine expression, and xenobiotic metabolism. Research studies link AhR activity with the control of regulatory T-cell and T-helper 17 cell differentiation, regulation of the inflammatory response, and the onset of lung cancer. Protein type: Nuclear receptor; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 7p15 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; nucleus Molecular Function: protein dimerization activity; RNA polymerase II transcription factor activity, enhancer binding; protein binding; ligand-dependent nuclear receptor activity; signal transducer activity; DNA binding; protein heterodimerization activity; sequence-specific DNA binding; Hsp90 protein binding; transcription factor binding; transcription factor activity Biological Process: prostate gland development; transcription from RNA polymerase II promoter; blood vessel development; intracellular receptor-mediated signaling pathway; apoptosis; response to toxin; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; cell cycle; regulation of transcription from RNA polymerase II promoter; response to xenobiotic stimulus; regulation of transcription, DNA-dependent; regulation of gene expression; xenobiotic metabolic process; positive regulation of transcription from RNA polymerase II promoter; regulation of B cell proliferation; circadian regulation of gene expression; positive regulation of transcriptional preinitiation complex assembly; negative regulation of transcription, DNA-dependent
Research Articles on AHR	**1.** Large interindividual differences in the expression of genes from the AhR regulatory network in laryngeal squamous cell carcinoma cell lines treated with beta-naphthoflavone.
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