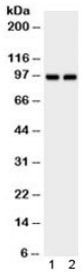
AHR Antibody (R32060)

Catalog No.	Formulation	Size
R32060	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P30561
Applications	Western blot: 0.1-0.5ug/ml
Limitations	This AHR antibody is available for research use only.



AHR Antibody Brain and Liver WB. Western blot testing of 1) rat brain and 2) mouse liver lysate with AHR antibody. Expected/observed molecular weight ~95 kDa.

Description

AHR (aryl hydrocarbon receptor), also called bHLHe76, is a member of the family of basic helix-loop-helix transcription factors. AhR is a cytosolic transcription factor that is normally inactive, bound to several co-chaperones. The AHR gene is mapped on 7p21.1. Estrogenic actions of AHR agonists were detected in wildtype ovariectomized mouse uteri, but were absent in Ahr -/- or Er-alpha -/- ovariectomized mice. Complex assembly and ubiquitin ligase activity of CUL4B (AHR) in vitro and in vivo are dependent on the AHR ligand. In the CUL4B (AHR) complex, ligand-activated AHR acts as a substrate-specific adaptor component that targets sex steroid receptors for degradation. Cd4-positive cells from mice lacking Ahr developed Th17 responses but failed to produce Il22 and did not show enhanced Th17 development.

Activation of Ahr during induction of EAE accelerated disease onset and increased pathology in wildtype mice, but not in Ahr -/- mice. The TDO-AHR pathway is active in human brain tumors and is associated with malignant progression and poor survival. Ahr activity within ROR-gamma-t-positive ILC could be induced by dietary ligands such as those contained in vegetables of the family Brassicaceae.

Visit our AHR Antibody page to discover additional antibodies against this Environmental Sensor Protein, including reagents for studies of xenobiotic metabolism, immune regulation, and transcriptional signaling.

Application Notes

Optimal dilution of the AHR antibody should be determined by the researcher.

Immunogen

Amino acids DNKNNDLYNIMRNLGIDFEDIRSMQNEE of mouse AHR were used as the immunogen for the AHR antibody.

Storage

After reconstitution, the AHR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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