

## 39-2135: Polyclonal Antibody to Anti-AHR Antibody

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	IHC,WB
<b>Reactivity :</b>	Mouse
<b>Gene :</b>	Ahr
<b>Gene ID :</b>	11622
<b>Uniprot ID :</b>	P30561
<b>Alternative Name :</b>	Aryl hydrocarbon receptor; Ah receptor; AhR; Ahr
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	A synthetic peptide corresponding to a sequence at the C-terminus of mouse AHR (497-511aa EAALKHEQIGHAQDV).

### 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.

### Product Info

<b>Amount :</b>	100 µg/vial
<b>Purification :</b>	Immunogen affinity purified.
<b>Content :</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
<b>Storage condition :</b>	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Application Note

Western blot : 0.1-0.5µg/ml, Immunohistochemistry: 0.5-1µg/ml

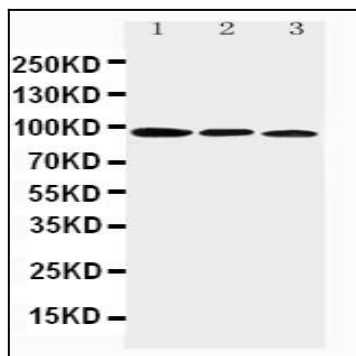


Figure 1: Anti-AHR antibody(39-2135). Western blotting: Lane 1: Mouse Brain Tissue Lysate, Lane 2: Mouse Heart Tissue Lysate, Lane 3: Mouse Liver Tissue Lysate.

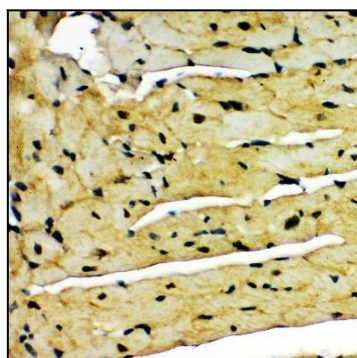


Figure 2: Anti-AHR antibody (39-2135). IHC(P): Mouse Cardiac Muscle Tissue.

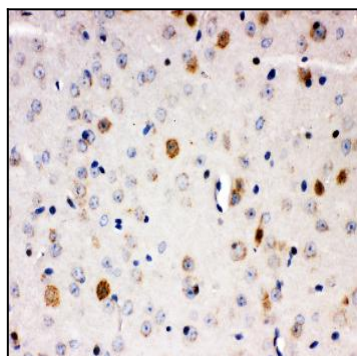


Figure 3: Anti-AHR antibody (39-2135). IHC(P): Mouse Brain Tissue.