

## Anti-Aryl hydrocarbon Receptor/AHR Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9419-Cy3

### About Ahr

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.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Aryl hydrocarbon Receptor/AHR Antibody Picoband® Cy3 Conjugated   |
| Reactive Species     | Mouse, Rat   |
| Application          | Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.   |
| Host                 | Rabbit   |
| Uniprot ID           | P30561   |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | A synthetic peptide corresponding to a sequence in the middle region of mouse AHR, different from the related human sequence by five amino acids, and from the related rat sequence by one amino acid. |
| Cross Reactivity | No cross-reactivity with other proteins  |
| Isotype          | Rabbit IgG   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |

|                     |   |
|---------------------|---|
| Purification        | Immunogen affinity purified.  |
| Conjugate           | Cy3<br>Excitation Wavelength: 554 nm<br>Emission Wavelength: 568 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users.                |

## 1 Publications Citing This Product

1. PubMed ID: 33204326, Yang X,Liu H,Ye T,Duan C,Lv P,Wu X,Liu J,Jiang K,Lu H,Yang H,Xia D,Peng E,Chen Z,Tang K,Ye Z. AhR activation attenuates calcium oxalate nephrocalcinosis by diminishing M1 macrophage polarization and promoting M2 macrophage polarization. Theranostics.2020

Visit [bosterbio.com/anti-ahr-picoband-trade-antibody-pb9419-boster.html](https://bosterbio.com/anti-ahr-picoband-trade-antibody-pb9419-boster.html) to see all 1 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Aryl hydrocarbon Receptor/AHR Antibody - Cy3

For Research Use Only. Not for use in diagnostic procedures.