

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 31, 2026

STOCK [Ahr^{tm3.1Bra/J}](#)

RRID:IMSR_JAX:006203

Type: Organism

Proper Citation

RRID:IMSR_JAX:006203

Organism Information

URL: <https://www.jax.org/strain/006203>

Proper Citation: RRID:IMSR_JAX:006203

Description: Mus musculus with name STOCK [Ahr^{tm3.1Bra/J}](#) from IMSR.

Species: Mus musculus

Synonyms: B6.129(FVB)-Ahr/J

Notes: gene symbol note: aryl-hydrocarbon receptor; mutant stock: Ahr

Affected Gene: aryl-hydrocarbon receptor

Genomic Alteration: targeted mutation 3.1; Christopher A Bradfield

Catalog Number: JAX:006203

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: STOCK [Ahr^{tm3.1Bra/J}](#)

Record Creation Time: 20250513T053655+0000

Record Last Update: 20260725T044406+0000

Ratings and Alerts

No rating or validation information has been found for STOCK [Ahr^{tm3.1Bra/J}](#).

No alerts have been found for STOCK [Ahr^{tm3.1Bra/J}](#).

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Feng J, et al. (2026) The electrophilic metabolite of kynurenine, kynurenine-CKA, requires C151 in Keap1 to derepress Nrf2. Redox biology, 90, 104009.

Phelps CM, et al. (2025) Exercise-induced microbiota metabolite enhances CD8 T cell antitumor immunity promoting immunotherapy efficacy. Cell.

Wang C, et al. (2025) Gut microbe-derived metabolites drive psoriatic inflammation via modulation of skin Th17 cells. Immunity, 58(9), 2241.

Keskey RC, et al. (2025) Enterobactin inhibits microbiota-dependent activation of AhR to promote bacterial sepsis in mice. Nature microbiology, 10(2), 388.

Sun Z, et al. (2025) Intestinal-region-specific functions of AHR in intrinsic enteric neurons during infections. Cell reports, 44(4), 115524.

Feng J, et al. (2025) The electrophilic metabolite of kynurenine, kynurenine-CKA, targets C151 in Keap1 to derepress Nrf2. bioRxiv : the preprint server for biology.

Garcia-Villatoro EL, et al. (2024) Involvement of Intestinal Epithelium Aryl Hydrocarbon Receptor Expression and 3, 3'-Diindolylmethane in Colonic Tertiary Lymphoid Tissue Formation. International journal of molecular sciences, 25(18).

Garcia-Villatoro EL, et al. (2024) Aryl hydrocarbon receptor activity in intestinal epithelial cells in the formation of colonic tertiary lymphoid tissues. American journal of physiology. Gastrointestinal and liver physiology, 327(2), G154.

Yoshimatsu Y, et al. (2022) Aryl hydrocarbon receptor signals in epithelial cells govern the recruitment and location of Helios+ Tregs in the gut. Cell reports, 39(6), 110773.

Gargaro M, et al. (2022) Indoleamine 2,3-dioxygenase 1 activation in mature cDC1 promotes tolerogenic education of inflammatory cDC2 via metabolic communication. Immunity, 55(6), 1032.

Hezaveh K, et al. (2022) Tryptophan-derived microbial metabolites activate the aryl hydrocarbon receptor in tumor-associated macrophages to suppress anti-tumor immunity. Immunity, 55(2), 324.

St Paul M, et al. (2021) Coenzyme A fuels T cell anti-tumor immunity. Cell metabolism, 33(12), 2415.

Uberoi A, et al. (2021) Commensal microbiota regulates skin barrier function and repair via signaling through the aryl hydrocarbon receptor. *Cell host & microbe*, 29(8), 1235.

Metidji A, et al. (2018) The Environmental Sensor AHR Protects from Inflammatory Damage by Maintaining Intestinal Stem Cell Homeostasis and Barrier Integrity. *Immunity*, 49(2), 353.

Seo GY, et al. (2018) LIGHT-HVEM Signaling in Innate Lymphoid Cell Subsets Protects Against Enteric Bacterial Infection. *Cell host & microbe*, 24(2), 249.