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- Mindermengenzuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

Ah Receptor (m): 293 Lysate: sc-178266

BACKGROUND

2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) is the prototype for a family of toxic halogenated aromatic compounds that are thought to cause adverse reproductive, immunologic and metabolic effects. Many biological responses to TCDD are mediated through ligand binding to the aromatic hydrocarbon (Ah) receptor, also known as AhR. Ah Receptor is a ligand-dependent transcription factor that interacts with specific DNA sequences, termed xenobiotic responsive elements (XREs), and that lies upstream of TCDD-inducible genes. Upon binding to the ligand, Ah Receptor binds to the Ah Receptor nuclear translocator (Arnt) and the complex is translocated from the cytoplasm to the nucleus. Arnt is required for Ah Receptor to bind to XRE. Ah Receptor and Arnt are members of a family of transcription factors that contain a basic helix-loop-helix motif and a common "PAS" motif.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ahr (mouse) mapping to 12 A3.

PRODUCT

Ah Receptor (m): 293 Lysate represents a lysate of mouse Ah Receptor transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Ah Receptor (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive Ah Receptor antibodies. Recommended use: 10-20 µl per lane.

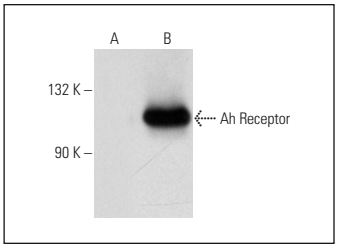
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Ah Receptor (A-3): sc-133088 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Ah Receptor expression in Ah Receptor transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

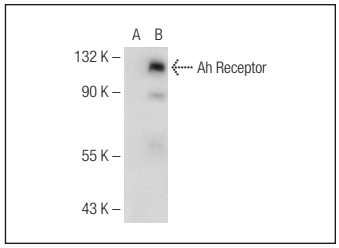
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Ah Receptor (A-3): sc-133088. Western blot analysis of Ah Receptor expression in non-transfected: sc-110760 (**A**) and mouse Ah Receptor transfected: sc-178266 (**B**) 293 whole cell lysates.



Ah Receptor (B-11): sc-74571. Western blot analysis of Ah Receptor expression in non-transfected: sc-110760 (**A**) and mouse Ah Receptor transfected: sc-178266 (**B**) 293 whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.