

XAP2 (N-20): sc-27445

BACKGROUND

The Aryl hydrocarbon receptor (AhR), also designated dioxin receptor (DR), a ligand-activated transcription factor, becomes activated upon binding of dioxins or structurally related forms of xenobiotics. Upon ligand binding, AhR translocates from the cytoplasm to the nucleus where it complexes with Arnt to form a DNA binding heterodimer. This complex activates transcription of target genes involved in xenobiotic metabolism. Until ligand binding occurs, AhR remains latent in the cytoplasm, which is maintained by its association with the molecular chaperones HSP 90, the hepatitis B virus X-associated protein (XAP2, also designated AIP and ARA9) and the heat shock protein p23. XAP2, a ubiquitously expressed protein, binds to HSP 90 and AhR through a highly conserved carboxy-terminal tetratricopeptide repeat domain. XAP2 participates in stabilizing AhR as well as enhancing the cytoplasmic localization of the receptor. It may also be involved in regulating the degradation of AhR.

CHROMOSOMAL LOCATION

Genetic locus: AIP (human) mapping to 11q13.2; Aip (mouse) mapping to 19 A.

SOURCE

XAP2 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of XAP2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27445 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

XAP2 (N-20) is recommended for detection of XAP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

XAP2 (N-20) is also recommended for detection of XAP2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for XAP2 siRNA (h): sc-63334, XAP2 siRNA (m): sc-63335, XAP2 shRNA Plasmid (h): sc-63334-SH, XAP2 shRNA Plasmid (m): sc-63335-SH, XAP2 shRNA (h) Lentiviral Particles: sc-63334-V and XAP2 shRNA (m) Lentiviral Particles: sc-63335-V.

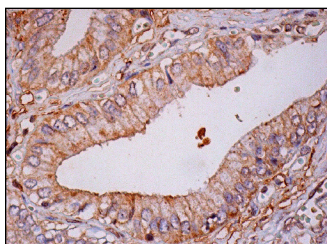
Molecular Weight of XAP2: 38 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Hep G2 cell lysate: sc-2227 or mouse liver extract: sc-2256.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



XAP2 (N-20): sc-27445. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic and membrane staining of glandular cells.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SELECT PRODUCT CITATIONS

- Vargioli, M., et al. 2009. The tyrosine kinase receptor RET interacts *in vivo* with aryl hydrocarbon receptor-interacting protein to alter survivin availability. *J. Clin. Endocrinol. Metab.* 94: 2571-2578.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **XAP2 (35-2): sc-59730**, our highly recommended monoclonal alternative to XAP2 (N-20).