**BACKGROUND**

FKHR (for forkhead in rhabdomyosarcoma) and FKHR L1 are members of the forkhead family of transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHR L1 and results in FKHR L1 and FKHRL1 associating with 14-3-3 proteins and being retained in the cytoplasm. Induction of apoptosis or withdrawal of growth factors stimulates dephosphorylation and nuclear translocation of FKHR proteins, leading to FKHR-induced gene-specific transcriptional activation. FKHR, also designated forkhead box protein O1A (FOXO1), is an ubiquitously expressed protein that shuttles between the cytoplasm and nucleus. Genetic mutations in FKHR genes, including the t(2;13) and t(1;13) translocations, are commonly found in alveolar rhabdomyosarcomas. These translocations result in the fusion of the amino-terminus of Pax-3 or Pax-7, including the paired box and homeodomain DNA-binding domains, with the carboxy-terminus of FKHR, which contains a transcriptional activation domain. The Pax-3/FKHR fusion protein appears to function as an oncogenic transcription factor that enhances the activation of normal Pax-3 target genes.

**CHROMOSOMAL LOCATION**

Genetic locus: FOXO1 (human) mapping to 13q14.11; Foxo1 (mouse) mapping to 3 C.

**SOURCE**

FKHR (C-9) is a mouse monoclonal antibody raised against a peptide mapping near the C-terminus of FKHR of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChiP applications, sc-374427 X, 200 µg/0.1 ml.

FKHR (C-9) is available conjugated to agarose (sc-374427 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374427 HRP), 200 µg/ml, for FKHR (C-9) is available conjugated to agarose (sc-374427 AC), 500 µg/0.1 ml.

FKHR (C-9) is recommended for detection of FKHR of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

FKHR (C-9) is also recommended for detection of FKHR in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FKHR siRNA (h): sc-35382, FKHR siRNA (m): sc-35383, FKHR shRNA Plasmid (h): sc-35382-SH, FKHR shRNA Plasmid (m): sc-35383-SH, FKHR shRNA (h) Lentiviral Particles: sc-35382-V and FKHR shRNA (m) Lentiviral Particles: sc-35383-V.

FKHR (C-9) X TransCruz antibody is recommended for Gel Supershift and ChiP applications.

Molecular Weight of FKHR: 80 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, U-698-M whole cell lysate: sc-364799 or Daudi cell lysate: sc-2415.

**DATA**

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**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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