

Paraxis (H-55): sc-98796

BACKGROUND

The novel basic helix-loop-helix (bHLH) transcription factor, twist, is a putative regulator of mesodermal differentiation and myogenesis. Twist is expressed throughout the epithelial somite but not in the myotome. Twist requires dimerization with E proteins, such as Paraxis, and inhibits myogenic regulatory factors. As an early transcriptional regulator, Paraxis determines the mesoderm pattern and governs the type of mesoderm-derived cells. Paraxis is also involved in the regulation of morphogenetic activities during somitogenesis. Paraxis, a nuclear protein containing one bHLH domain, requires dimerization with another protein in order to bind DNA efficiently.

REFERENCES

1. Carpio, R., et al. 2004. *Xenopus* Paraxis homolog shows novel domains of expression. *Dev. Dyn.* 231: 609-613.
2. Wilson-Rawls, J., et al. 2004. Paraxis is a basic helix-loop-helix protein that positively regulates transcription through binding to specific E-box elements. *J. Biol. Chem.* 279: 37685-37692.

CHROMOSOMAL LOCATION

Genetic locus: TCF15 (human) mapping to 20p13; Tcf15 (mouse) mapping to 2 G3.

SOURCE

Paraxis (H-55) is a rabbit polyclonal antibody raised against amino acids 4-42 mapping at the N-terminus of Paraxis 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. Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98796 X, 200 µg/0.1 ml.

APPLICATIONS

Paraxis (H-55) is recommended for detection of Paraxis of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Paraxis (H-55) is also recommended for detection of Paraxis in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Paraxis siRNA (h): sc-45841, Paraxis siRNA (m): sc-45842, Paraxis shRNA Plasmid (h): sc-45841-SH, Paraxis shRNA Plasmid (m): sc-45842-SH, Paraxis shRNA (h) Lentiviral Particles: sc-45841-V and Paraxis shRNA (m) Lentiviral Particles: sc-45842-V.

Paraxis (H-55) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

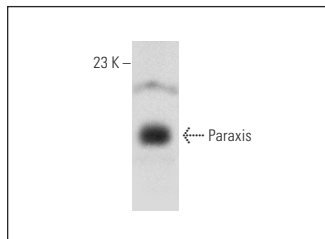
Molecular Weight of Paraxis: 21 kDa.

Positive Controls: human umbilical cord extract: sc-363783.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Paraxis (H-55): sc-98796. Western blot analysis of Paraxis expression in human umbilical cord tissue extract.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **Paraxis (B-6): sc-514687**, our highly recommended monoclonal alternative to Paraxis (H-55).