Members of the myogenic determination family are basic helix-loop-helix (bHLH) proteins that can be separated into two classes. Class A proteins include the ubiquitously expressed E-box binding factors E12/E47, ITF2 and HEB (BETA1 or HTF4). Class B proteins such as MyoD, myogenin and NeuroD (BETA2) are transiently expressed and exhibit a much more limited tissue distribution. Class A proteins heterodimerize with class B proteins to activate DNA transcription. Working in opposition to these positively acting factors are a specialized group of proteins that function as dominant negative regulators. Muscle tissue is derived from a subset of cells originating from the embryonic mesoderm. 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 the E proteins and inhibits myogenic regulatory factors. It has been implicated as regulator of the temporal and spatial formation of myotomes.

**CHROMOSOMAL LOCATION**

Genetic locus: TWIST1 (human) mapping to 7p21.2, TWIST2 (human) mapping to 2q37.3; Twist1 (mouse) mapping to 12 A3, Twist2 (mouse) mapping to 7 D.

**SOURCE**

twist (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of twist 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-6269 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6269 X, 200 µg/0.1 ml.

**APPLICATIONS**

twist (C-17) is recommended for detection of twist and twist2 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).

twist (C-17) is also recommended for detection of twist and twist2 in additional species, including equine, canine, bovine, porcine and avian.

twist (C-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of twist: 28 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, JAR cell lysate: sc-2276 or MES-SA/Dx5 cell lysate: sc-2284.

**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**


**RESEARCH USE**

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

Try twist (Twist2C1a): sc-81417, our highly recommended monoclonal alternative to twist (C-17).