

TWIST1 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 26	Source/Isotype: Rabbit	UniProt ID: #Q15672	Entrez-Gene Id: 7291
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TWIST1 Antibody detects endogenous levels of total TWIST1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human TWIST1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

TWIST1 is a basic helix-loop-helix (BHLH) transcription factor that functions as a master regulator of embryonic morphogenesis and plays essential roles in mesenchymal differentiation and osteogenic determination (1-3). Mutations affecting the BHLH domain of the *TWIST1* gene have been associated with Saethre-Chotzen syndrome (SCS), an autosomal dominant craniosynostosis disorder causing craniofacial and limb abnormalities (4,5). TWIST1 is upregulated in various human tumors and may play a role in epithelial-mesenchymal transition (EMT) and metastasis (6,7). Upregulation of TWIST1 may contribute to resistance to taxol and microtubule-regulating drugs in tumors (8).

Background References

1. Thisse, B. et al. (1987) *Nucleic Acids Res.* 15, 3439-53.
2. Lee, M.S. et al. (1999) *J. Cell Biochem.* 75, 566-77.
3. Chen, Z.F. and Behringer, R.R. (1995) *Genes Dev.* 9, 686-99.
4. Howard, T.D. et al. (1997) *Nat. Genet.* 15, 36-41.
5. Connerney, J. et al. (2006) *Dev. Dyn.* 235, 1345-57.
6. Watanabe, O. et al. (2004) *Anticancer Res.* 24, 3851-6.
7. Yang, J. et al. (2004) *Cell* 117, 927-39.
8. Wang, X. et al. (2004) *Oncogene* 23, 474-82.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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