

TWIST1 (E7E2G) Rabbit mAb (IF Formulated)

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

Applications: IF-F, IF-IC	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q15672	Entrez-Gene Id: 7291
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Product Usage Information	Application	Dilution
	Immunofluorescence (Frozen)	1:400 - 1:1600
	Immunofluorescence (Immunocytochemistry)	1:400 - 1:1600
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i>	
Specificity/Sensitivity	TWIST1 (E7E2G) Rabbit mAb (IF Formulated) recognizes endogenous levels of total TWIST1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro24 of human TWIST1 protein.	
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 <i>TWIST1</i> 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	<ol style="list-style-type: none"> 1. Thisse, B. et al. (1987) <i>Nucleic Acids Res.</i> 15, 3439-53. 2. Lee, M.S. et al. (1999) <i>J. Cell Biochem.</i> 75, 566-77. 3. Chen, Z.F. and Behringer, R.R. (1995) <i>Genes Dev.</i> 9, 686-99. 4. Howard, T.D. et al. (1997) <i>Nat. Genet.</i> 15, 36-41. 5. Connerney, J. et al. (2006) <i>Dev. Dyn.</i> 235, 1345-57. 6. Watanabe, O. et al. (2004) <i>Anticancer Res.</i> 24, 3851-6. 7. Yang, J. et al. (2004) <i>Cell</i> 117, 927-39. 8. Wang, X. et al. (2004) <i>Oncogene</i> 23, 474-82. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: Human M: Mouse
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