

35-1810: Polyclonal Antibody to Twist1

Clonality :	Polyclonal
Application :	IHC,WB
Reactivity :	Rat,Mouse,Human
Gene :	TWIST1
Gene ID :	7291
Uniprot ID :	Q15672
Format :	Purified
Alternative Name :	SCS, ACS3, CRS1, BPES2, BPES3
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.18~22(S-N-S-E-E) derived from Human Twist1

Description

Acts as a transcriptional regulator. Inhibits myogenesis by sequestering E proteins, inhibiting trans-activation by MEF2, and inhibiting DNA-binding by MYOD1 through physical interaction. This interaction probably involves the basic domains of both proteins. Also represses expression of proinflammatory cytokines such as TNFA and IL1B. Regulates cranial suture patterning and fusion. Activates transcription as a heterodimer with E proteins. Regulates gene expression differentially, depending on dimer composition. Homodimers induce expression of FGFR2 and POSTN while heterodimers repress FGFR2 and POSTN expression and induce THBS1 expression. Heterodimerization is also required for osteoblast differentiation. "Twist regulates cytokine gene expression through a negative feedback loop that represses NF-kappaB activity." Sosis D., Richardson J.A., Yu K., Ornitz D.M., Olson E.N. Cell 112:169-180(2003) "Mutations of the TWIST gene in the Saethre-Chotzen syndrome." el Ghouzzi V., le Merrer M., Perrin-Schmitt F., et al., Nat. Genet. 15:42-46(1997)

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blotting 1:500-1:1000, Immunohistochemistry 1:100-1:500

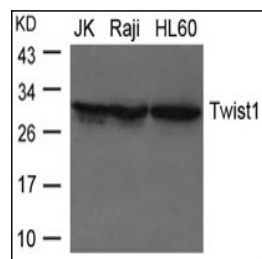


Figure 1: Western blot analysis of extracts from JK, Raji and HL-60 cells using Twist1 Antibody 35-1810 .

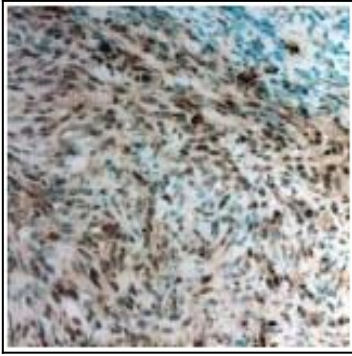


Figure 2: Immunohistochemical analysis of Twist1 Antibody staining Twist in Mouse pancreatic cancer tissue sections by Immunohistochemistry