TWIST1 (PT0464R) PT® Rabbit mAb

CatalogNo: YM8299 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- WB,IF,IP,ELISA

Applications
- Human,Mouse,Rat,

MW
- 21kD (Calculated)
26kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
Clone Number	PT0464R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name	TWIST1 BHLHA38 TWIST

Protein Name Twist-related protein 1 (Class A basic helix-loop-helix protein 38) (bHLHa38) (H-twist)

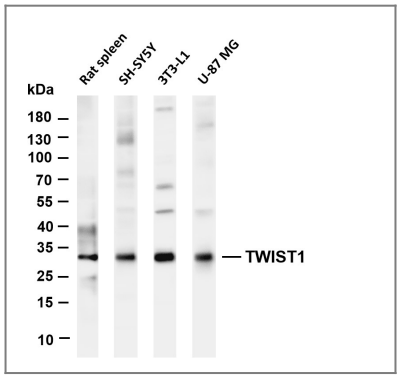
Organism	Gene ID	UniProt ID
Human	7291;	Q15672;
Mouse		P26687;

Cellular Localization Nucleus

Tissue specificity Subset of mesodermal cells.

Function Disease:Defects in TWIST1 are a cause of Saethre-Chotzen syndrome (SCS) [MIM:101400]; also known as acrocephalosyndactyly type 3 (ACS3). SCS is a craniosynostosis syndrome characterized by coronal synostosis, brachycephaly, low frontal hairline, facial asymmetry, hypertelorism, broad halluces, and clinodactyly.,Disease:Defects in TWIST1 are the cause of craniosynostosis type 1 (CRS1) [MIM:123100]. Craniosynostosis consists of premature fusion of one or more cranial sutures, resulting in an abnormal head shape.,Disease:Defects in TWIST1 are the cause of Robinow-Sorauf syndrome (RSS) [MIM:180750]; also known as craniosynostosis-bifid hallux syndrome. RSS is an autosomal dominant defect characterized by minor skull and limb anomalies which is very similar to Saethre-Chotzen syndrome.,Function:Probable transcription factor, which seems to be involved in the negative regulation of cellular determination and in the differentiation of several lineages including myogenesis, osteogenesis, and neurogenesis. Inhibits myogenesis by sequestrating 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 (By similarity). Also represses expression of proinflammatory cytokines such as TNFA and IL1B.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit:Efficient DNA binding requires dimerization with another bHLH protein. Homodimer.,tissue specificity:Subset of mesodermal cells.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TWIST1 (PT0464R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Lane 2: SH-SY5Y Lane 3: 3T3-L1 Lane 4: U-87 MG Predicted band size: 21kDa Observed band size: 26kDa

Contact information

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Please scan the QR code to access additional product information:
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