

ARG40734 anti-Twist 1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Twist 1
Tested Reactivity	Hu, Ms
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	Twist 1
Species	Human
Immunogen	Purified recombinant fragment corresponding to aa. 9-74 of Human Twist 1.
Conjugation	Un-conjugated
Alternate Names	CRS; CSO; BPES3; BPES2; Class A basic helix-loop-helix protein 38; Twist-related protein 1; ACS3; TWIST; H-twist; CRS1; SCS; bHLHa38

Application Instructions

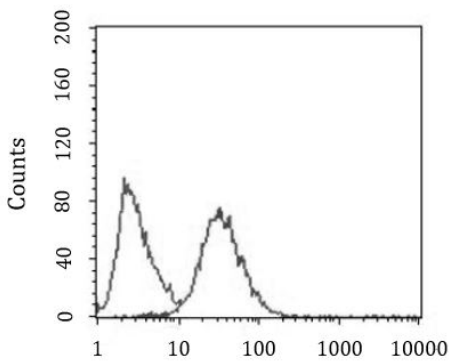
Application table	Application	Dilution
	FACS	1:200 - 1:400
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS and 0.05% Sodium azide.
Preservative	0.05% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

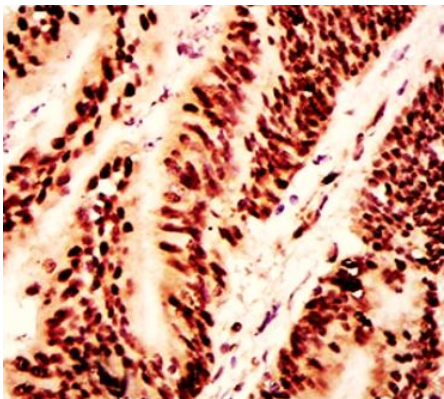
Gene Symbol	TWIST1
Gene Full Name	twist family bHLH transcription factor 1
Background	Basic helix-loop-helix (bHLH) transcription factors have been implicated in cell lineage determination and differentiation. The protein encoded by this gene is a bHLH transcription factor and shares similarity with another bHLH transcription factor, Dermo1. The strongest expression of this mRNA is in placental tissue; in adults, mesodermally derived tissues express this mRNA preferentially. Mutations in this gene have been found in patients with Saethre-Chotzen syndrome. [provided by RefSeq, Jul 2008]
Function	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. Represses the activity of the circadian transcriptional activator: NPAS2-ARNTL/BMAL1 heterodimer (By similarity). [UniProt]
Calculated Mw	21 kDa
Cellular Localization	Nucleus. [UniProt]

Images



ARG40734 anti-Twist 1 antibody FACS image

Flow Cytometry: HeLa cells stained with ARG40734 anti-Twist 1 antibody (right histogram) or negative control (left histogram).



ARG40734 anti-Twist 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon cancer tissue stained with ARG40734 anti-Twist 1 antibody.

ARG40734 anti-Twist 1 antibody WB image

Western blot: Human Twist 1 recombinant protein stained with ARG40734 anti-Twist 1 antibody.

