Datasheet for ABIN2854290

anti-TWIST1 antibody (Center)

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Overview

Quantity:	100 µL
Target:	TWIST1
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TWIST1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Twist1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Chicken, Cow (Bovine)
Cross-Reactivity (Details):	Chicken (82 %), Bovine (97 %)
Characteristics:	Rabbit Polyclonal antibody to TWIST1 (twist homolog 1 (Drosophila)) Twist1 antibody [N1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	TWIST1
Alternative Name:	Twist1 (TWIST1 Products)
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. Cellular Localization: Nucleus
Molecular Weight:	21 kDa
Gene ID:	7291
Pathways:	p53 Signaling, Proton Transport, Tube Formation, Negative Regulation of Transporter Activity

Application Details

Application Notes:	Suggested dilution Reference Western blot 1:5000-1:20000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceWestern blot1:5000-1:20000*
Comment:	Positive Control: Flag-human TWIST1-transfected HeLa cells
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS, 20 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw

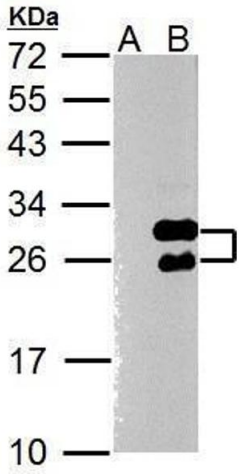
Handling

cycles.

Publications

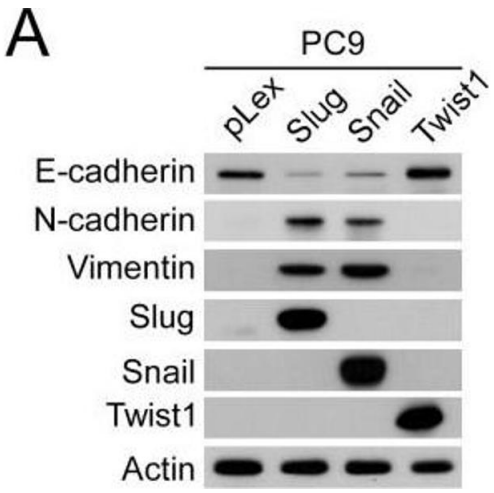
Product cited in: Galmozzi, Kok, Kim, Montenegro-Burke, Lee, Spreafico, Mosure, Albert, Cintron-Colon, Godio, Webb, Conti, Solt, Kojetin, Parker, Peluso, Pru, Siuzdak, Cravatt, Saez: "PGRMC2 is an intracellular haem chaperone critical for adipocyte function." in: **Nature**, Vol. 576, Issue 7785, pp. 138-142, (2020) (PubMed).

Validation report #104404 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



Western Blotting

Image 1. WB Image Twist1 antibody [N1C3] detects Twist1 protein by Western blot analysis. A. 30 µg HeLa whole cell lysate/extract B. 30 µg whole cell lysate/extract of Flag-human TWIST1-transfected HeLa cells 12 % SDS-PAGE Twist1 antibody [N1C3] , dilution: 1:10000



Western Blotting

Image 2. Snail- and Slug-induced EMT promoted drug resistance of parental PC9 and HCC827 cells.(A) The protein levels of EMT biomarkers and ectopically expressed Slug, Snail and Twist1 in the parental PC9 cells. (B) The pLex-, pLex-Slug- and pLex-Snail-expressing parental PC9 cells were treated with gefitinib at the indicated concentrations for 72 hours, and the relative cell viability was determined by MTT assay. (C) The protein levels of EMT biomarkers and the ectopically expressed Slug, Snail and Twist1 in the parental HCC827 cells. (D) The pLex-, pLex-Slug- and pLex-Snail-expressing parental HCC827 cells were treated with gefitinib at the indicated concentrations for 72 hours, and the relative cell viability was determined by

MTT assay. (E) Endogenous E-cadherin (CDH1) was knocked down by two shRNA clones (#1 and #2). The protein levels of EMT biomarkers were examined by Western blot. (F) Stable clones of scramble shRNA-, shRNA #1- and shRNA #2-transduced PC9 cells were treated with gefitinib at the indicated concentrations for 72 hours, and the relative cell viability was determined by MTT assay. - figure provided by CiteAb. Source: PMID28683123

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