

### Anti-Twist antibody [Twist2C1a] ab50887

★★★★★ [26 Abreviews](#) [220 References](#) [画像数 7](#)

#### 製品の概要

製品名	Anti-Twist antibody [Twist2C1a]
製品の詳細	Mouse monoclonal [Twist2C1a] to Twist
由来種	Mouse
特異性	Good controls are NIH3T3 and A2058 cell lysates. Given that the immunogen shares 92% homology with Twist2, it is possible that it may cross-react. Although some customers have obtained good results in IHC, we do not recommend this antibody for use in IHC.
アプリケーション	<b>適用あり:</b> WB, ICC
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant fragment corresponding to Human Twist (C terminal).
ポジティブ・コントロール	WB: Recombinant Human Twist protein ( <a href="#">ab132349</a> ) can be used as a positive control. A2058, NIH/3T3 and F2408 whole cell lysate. ICC: HeLa cells.
特記事項	<p>This product was changed from ascites to tissue culture supernatant on 9<sup>th</sup> August 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 1% BSA, PBS</p>
精製度	Protein G purified

特記事項(精製)	Purified from TCS
ポリ/モノ	モノクローナル
クローン名	Twist2C1a
アイソタイプ	IgG1

## アプリケーション

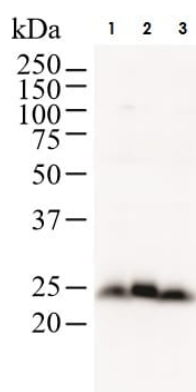
**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab50887の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (9)	Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 21 kDa. Abcam recommends using BSA blocking.
ICC	★★★★★ (1)	Use a concentration of 2 - 100 µg/ml.

## ターゲット情報

機能	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.
組織特異性	Subset of mesodermal cells.
関連疾患	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. 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. 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.
配列類似性	Contains 1 basic helix-loop-helix (bHLH) domain.
細胞内局在	Nucleus.

## 画像



Western blot - Anti-Twist antibody [Twist2C1a]  
(ab50887)

**All lanes :** Anti-Twist antibody [Twist2C1a] (ab50887) at 2 µg/ml

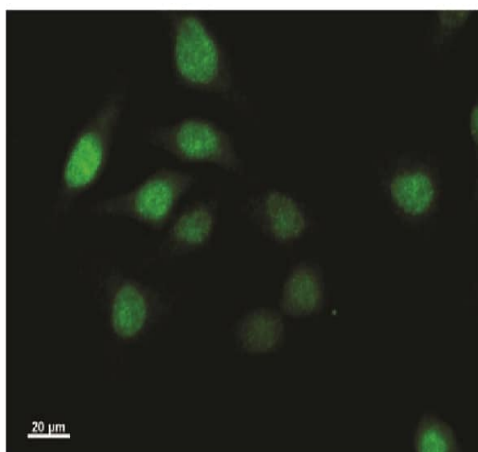
**Lane 1 :** A2058 (Human melanoma cell line) whole cell lysate

**Lane 2 :** NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

**Lane 3 :** F2408 (Rat normal fibroblast cell line) whole cell lysate

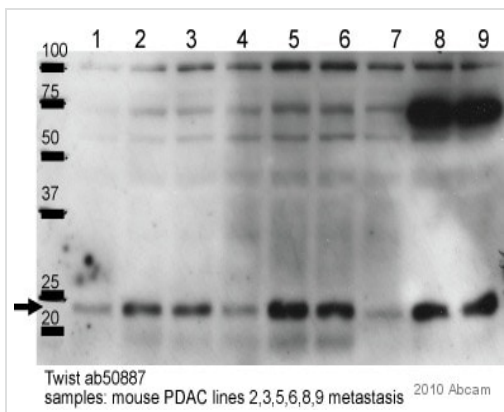
Lysates/proteins at 25 µg per lane.

**Predicted band size:** 21 kDa



Immunocytochemistry - Anti-Twist antibody  
[Twist2C1a] (ab50887)

4% paraformaldehyde-fixed, 0.1% Triton-permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained for Twist using ab50887 at 100 µg/ml in immunocytochemistry.



Western blot - Anti-Twist antibody [Twist2C1a] -  
ChIP Grade (ab50887)

This image is courtesy of an Abreview submitted by  
Pawel Mazar

**All lanes:** Twist antibody [Twist2C1a] - ChIP Grade (ab50887) at  
1/250 dilution in PBST for 8 hours at 4°C

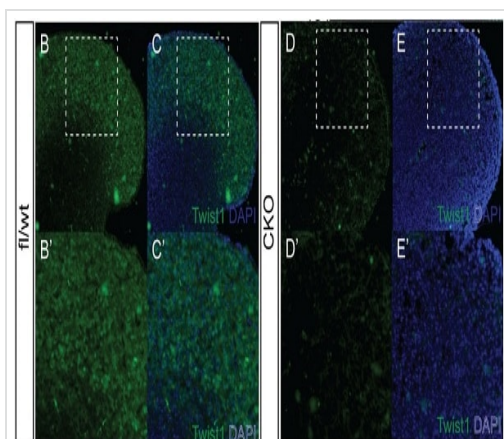
**Lanes 2, 3, 5, 6, 8 & 9:** Whole cell lysate of mouse pancreatic  
tumor

**Lanes 1, 4 & 7:** Whole cell lysate of Mouse metastatic pancreatic  
carcinoma

Lysates at 50 µg per lane

**Secondary Antibody:** An HRP-conjugated sheep anti-mouse IgG  
polyclonal (1/2000) developed using the ECL technique

**Blocking Step:** 10% Milk for 1 hour at room temperature

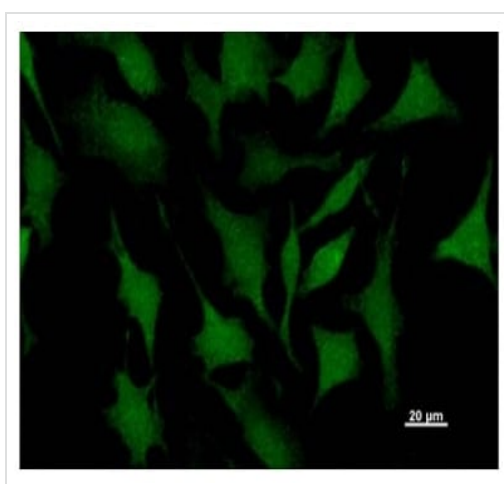


Immunocytochemistry - Anti-Twist antibody

[Twist2C1a] - ChIP Grade (ab50887)

Loebel DA et al., PLoS One, 9, e98945, 2014  
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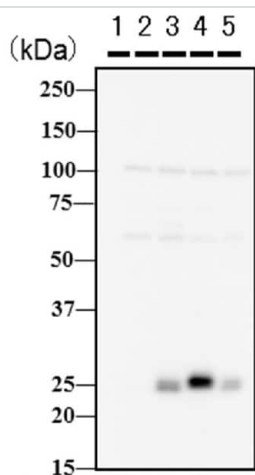
Immunostaining with anti-Twist1 monoclonal antibody  
ab50887 (green, 1/50 dilution) of cryosectioned wild type (fl/wt) (B,  
C, B', C') and conditional knockout (CKO) (D, E, D', E') mouse  
embryonic day 11.5 forelimb buds of embryos harvested from  
mothers injected with tamoxifen at embryonic day 10.5. (C, C', E,  
E') Merged images showing counterstaining with DAPI (blue). (B'–  
E') Higher magnification images of the boxed regions in B–  
E. An AlexaFluor 488 conjugated donkey anti-mouse was used as  
the secondary antibody



Immunocytochemistry - Anti-Twist antibody

[Twist2C1a] - ChIP Grade (ab50887)

ab50887 at 1/1 dilution staining HeLa cells; visualised with  
AlexaFluor®488 Goat anti-mouse IgG at 1/200 dilution.



Western blot - Anti-Twist antibody [Twist2C1a] -  
ChIP Grade (ab50887)

**Lanes 2-5 :** Anti-Twist antibody [Twist2C1a] (ab50887) at 1/50 dilution

**Lane 1 :** Marker lane

**Lane 2 :** Hela whole cell lysate, 25µg

**Lane 3 :** A2058 whole cell lysate, 25µg

**Lane 4 :** NIH3T3 whole cell lysate, 25µg

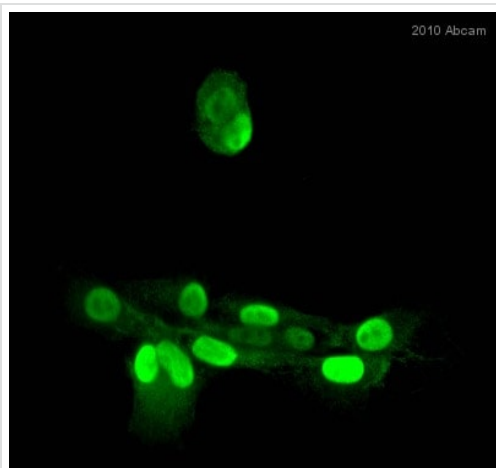
**Lane 5 :** F2408 whole cell lysate, 25µg

**Predicted band size:** 21 kDa

**Observed band size:** 25 kDa

**Exposure time:** 2 minutes

SDS-PAGE with 10-20% gradient gel.



Immunocytochemistry - Anti-Twist antibody  
[Twist2C1a] - ChIP Grade (ab50887)

This image is courtesy of an anonymous Abreview

ab50887 staining Twist in a rat choroid plexus cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with Triton X-100 0.1% in PBS and blocked with 0.5% BSA for 30 minutes at room temperature. Samples were incubated with primary antibody (1/50 in PBS + 0.5% BSA) for 16 hours at 4°C. A FITC-conjugated Goat anti-mouse IgG polyclonal (1/80) was used as the secondary antibody.

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