abcam

Product datasheet

Anti-Twist antibody [10E4E6] ab175430

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Overview

Product name Anti-Twist antibody [10E4E6]

Description Mouse monoclonal [10E4E6] to Twist

Host species Mouse

Tested applications Suitable for: Flow Cyt, IHC-P, WB, ICC/IF

Species reactivity Reacts with: Mouse, Human, Recombinant fragment

Predicted to work with: Chimpanzee, Gorilla, Common marmoset

Immunogen Recombinant fragment corresponding to Human Twist aa 9-74. (Expressed in E.coli).

Sequence:

PVSPADDSLSNSEEEPDRQQPPSGKRGGRKRRSSRRSA

GGGAGPGGAAGG GVGGGDEPGSPAQGKR

Database link: Q15672

Run BLAST with
Run BLAST with

Positive control Twist recombinant protein; Twist (aa9-74) - hlgGFc transfected Hek293 cell lysate; NIH3T3,

Jurkat, HeLa, A549, Raji and OCM-1 cell lysates; HeLa cells; cervical cancer tissue; colon cancer

tissue.

General notesThis product was changed from ascites to supernatant. Lot no's high than GR313044-1 are from

Tissue Culture Supernatant

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.

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&As

Properties

Form Liquid

Storage instructions 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.

1

Storage buffer Preservative: 0.05% Sodium azide

Constituent: 99% PBS

Contains 0.5% protein stabiliser.

Purity Protein G purified

Purification notes Purified from tissue culture supernatant.

ClonalityMonoclonalClone number10E4E6IsotypeIgG1

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab175430 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/200 - 1/400. ab170190 - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.
IHC-P		1/200 - 1/1000.
WB	* * * * * * * * <u>*</u> (1)	1/500 - 1/2000. Predicted molecular weight: 21 kDa. Abcam recommends using BSA as the blocking agent.
ICC/IF		1/200 - 1/1000.

Target

Function

Acts as a transcriptional regulator. 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. 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.

Tissue specificity

Subset of mesodermal cells.

Involvement in 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.

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.

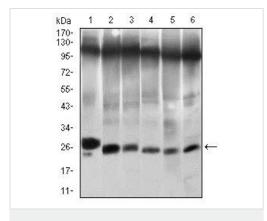
Sequence similarities

Contains 1 basic helix-loop-helix (bHLH) domain.

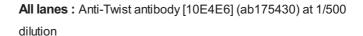
Cellular localization

Nucleus.

Images

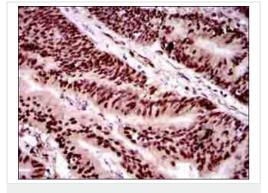


Western blot - Anti-Twist antibody [10E4E6] (ab175430)



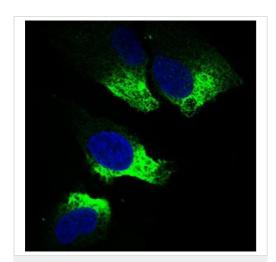
Lane 1: NIH/3T3 cell lysate
Lane 2: Jurkat cell lysate
Lane 3: HeLa cell lysate
Lane 4: A549 cell lysate
Lane 5: Raji cell lysate
Lane 6: OCM-1 cell lysate

Predicted band size: 21 kDa



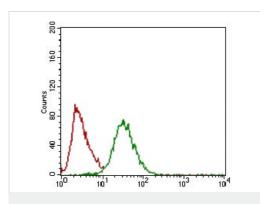
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Twist antibody [10E4E6] (ab175430)

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue labeling Twist with ab175430 at 1/200 dilution, with DAB staining.



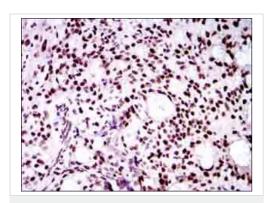
Immunocytochemistry/ Immunofluorescence - Anti-Twist antibody [10E4E6] (ab175430)

Immunofluorescent analysis of Hela cells labeling Twist with ab175430 at 1/200 dilution (green). Blue: DRAQ5 fluorescent DNA dye.



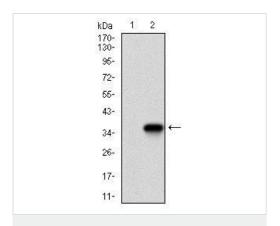
Flow Cytometry - Anti-Twist antibody [10E4E6] (ab175430)

Flow cytometric analysis of HeLa cells labeling Twist with ab175430 at 1/200 dilution (green) compared to a negative control (red).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Twist antibody [10E4E6] (ab175430)

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue labeling Twist with ab175430 at 1/200 dilution, with DAB staining.



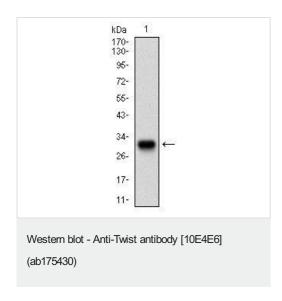
Western blot - Anti-Twist antibody [10E4E6] (ab175430)

All lanes : Anti-Twist antibody [10E4E6] (ab175430) at 1/500 dilution

Lane 1: HEK293 cell lysate

Lane 2: Twist (aa9-74) - hlgGFc transfected HEK293 cell lysate

Predicted band size: 21 kDa



Anti-Twist antibody [10E4E6] (ab175430) at 1/500 dilution + Twist recombinant protein

Predicted band size: 21 kDa

Expected MW is 31.9 kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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