

## Twist1 Antibody

Catalog No: #21642

Package Size: #21642-1 50ul #21642-2 100ul

## Description

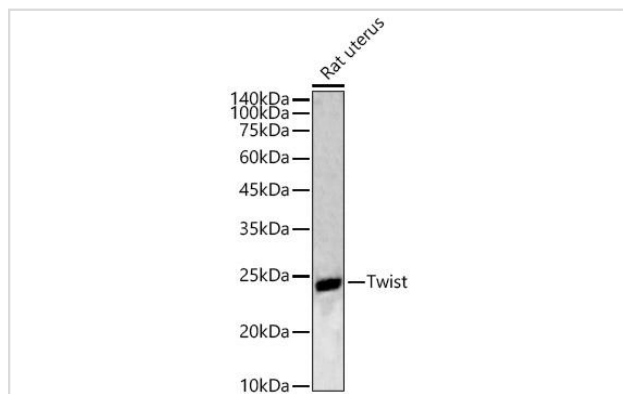
|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Twist1 Antibody                                                                                                                                                               |
| Host Species          | Rabbit                                                                                                                                                                        |
| Clonality             | Polyclonal                                                                                                                                                                    |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications          | WB IHC                                                                                                                                                                        |
| Species Reactivity    | Hu Ms Rt                                                                                                                                                                      |
| Specificity           | The antibody detects endogenous levels of total Twist1 protein.                                                                                                               |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                   |
| Immunogen Description | Recombinant fusion protein of Twist (NP_000465.1).                                                                                                                            |
| Conjugates            | Unconjugated                                                                                                                                                                  |
| Target Name           | Twist1                                                                                                                                                                        |
| Other Names           | SCS; ACS3; CRS1; BPES2; BPES3                                                                                                                                                 |
| Accession No.         | Swiss-Prot: Q15672NCBI Protein: NP_000465.1                                                                                                                                   |
| Calculated MW         | 21kDa                                                                                                                                                                         |
| Formulation           | PBS with 0.05% proclin300, 50% glycerol, pH7.3.                                                                                                                               |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                                                                                     |

## Application Details

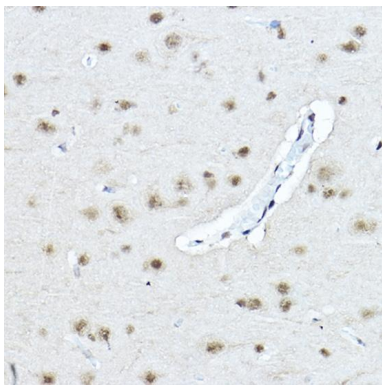
WB 1:500 - 1:1000;

IHC 1:50 - 1:200;

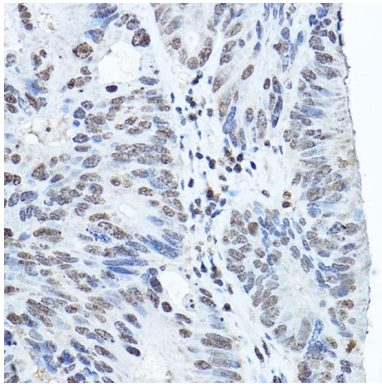
## Images



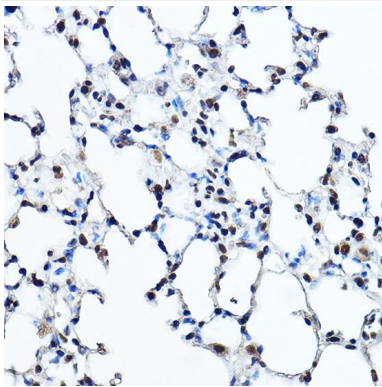
Western blot analysis of various lysates, using Twist Rabbit pAb at 1:500 dilution.



Immunohistochemistry analysis of paraffin-embedded Rat brain using Twist Rabbit pAb at dilution of 1:200 (40x lens).



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Twist Rabbit pAb at dilution of 1:200 (40x lens).



Immunohistochemistry analysis of paraffin-embedded Mouse lung using Twist Rabbit pAb at dilution of 1:200 (40x lens).

## Background

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. "Twist regulates cytokine gene expression through a negative feedback loop that represses NF-kappaB activity."Sosic D., Richardson J.A., Yu K., Ornitz D.M., Olson E.N.Cell 112:169-180(2003)

"Mutations of the TWIST gene in the Saethre-Chotzen syndrome."el Ghouzzi V., le Merrer M., Perrin-Schmitt F., et al., Nat. Genet. 15:42-46(1997)

## Published Papers

el at., Metformin reverses stem cell?like HepG2 sphere formation and resistance to sorafenib by attenuating epithelial?mesenchymal transformation.In Mol Med Rep.On 2018 Oct by Feng Y, Guo X et al..PMID:30106125, , (2018)

[PMID:30106125](#)

el at., Wogonoside Inhibits Invasion and Migration Through Suppressing TRAF2/4 Expression in Breast Cancer.In J Exp Clin Cancer Res on 2017 Aug

3 by Yuyuan Yao , Kai Zhao,et al..PMID: 28774312, , (2017)

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el at., Honokiol inhibits bladder cancer cell invasion through repressing SRCi ? expression and epitheliali ζ • esenchymal transition.In Oncol Lett on 2017 Oct by Lan Shen, Fang Zhang,et al..PMID: 28943942, , (2017)

[PMID:28943942](#)

el at., SALL4, a novel marker for human gastric carcinogenesis and metastasis.In Oncogene on 2014 Nov 27 by L Zhang , Z Xu et al..PMID:24276240, , (2014)

[PMID:24276240](#)

el at., TBBPA stimulated cell migration of endometrial cancer via the contribution of NOX-generated ROS in lieu of energy metabolism. In J Hazard Mater on 2020 Dec 5 by Huilan Su, Ge Guan, et al..PMID:32569978, , (2020)

[PMID:32569978](#)

el at., Glycogen Phosphorylase B Is Regulated by miR101-3p and Promotes Hepatocellular Carcinoma Tumorigenesis. In Front Cell Dev Biol on 2020 Nov 25 by Guangying Cui, Huifen Wang, et al..PMID:33324633, , (2020)

[PMID:33324633](#)

el at., The essential role of PRAK in tumor metastasis and its therapeutic potential. In Nat Commun on 2021 Mar 19 by Yuqing Wang, Wei Wang, et al..PMID:33741957, , (2021)

[PMID:33741957](#)

el at., Interleukin-6 and Hypoxia Synergistically Promote EMT-Mediated Invasion in Epithelial Ovarian Cancer via the IL-6/STAT3/HIF-1 α Feedback LoopInAnal Cell PatholOn2023 Feb 13byTongshuo Zhang?1?2?3,?Jing Yang et al..PMID:?36814597, , (2023)

[PMID:36814597](#)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.