

# TWIST2 Monoclonal antibody

Catalog Number: 66544-1-Ig **3 Publications**

## Basic Information

<b>Catalog Number:</b> 66544-1-Ig	<b>GenBank Accession Number:</b> BC033168	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 2200 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 117581	<b>CloneNo.:</b> 1B12D11
<b>Source:</b> Mouse	<b>Full Name:</b> twist homolog 2 (Drosophila)	<b>Recommended Dilutions:</b> WB 1:5000-1:20000 IHC 1:250-1:1000 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 160 aa, 18 kDa	
<b>Immunogen Catalog Number:</b> AG2348	<b>Observed MW:</b> 22 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> HeLa cells, THP-1 cells, HL-60 cells, Jurkat cells, NIH/3T3 cells, K-562 cells, HSC-T6 cells
<b>Species Specificity:</b> Human, rat, mouse, pig	<b>IHC :</b> human breast cancer tissue, human ovary tumor tissue
<b>Cited Species:</b> human, mouse	<b>IF :</b> HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

TWIST2, also named as BHLHA39 and Dermo1, is a basic helix-loop-helix protein which acts as a transcriptional regulator, plays a central role in differentiation of mesodermal during embryogenesis. TWIST2 inhibits the premature or ectopic differentiation of preosteoblast cells during osteogenesis, possibly by changing the internal signal transduction response of osteoblasts to external growth factors. It is also implicated in tumorigenesis, invasion and metastasis. TWIST2 forms both homodimers (45KD) and heterodimers with E2A E proteins, and dimer partner selection is a critical mediator of TWIST function. (PMID:14724576, 16502419).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhangya Pu	35562734	J Transl Med	WB
Beibei Wang	35340228	J Healthc Eng	IHC
Yang Yang	37752124	Nat Commun	IF

## Storage

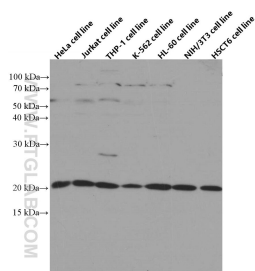
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

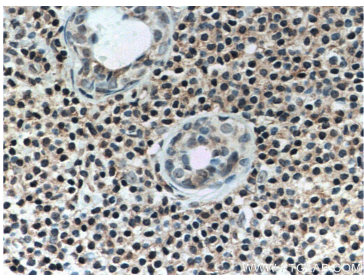
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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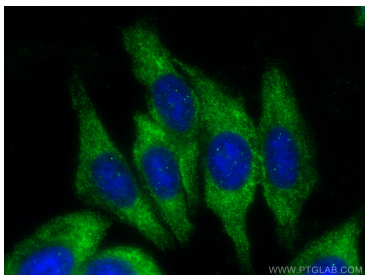
## Selected Validation Data



Various cells were subjected to SDS PAGE followed by western blot with 66544-1-Ig (TWIST2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66544-1-Ig (TWIST2 antibody) at dilution of 1:500 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using TWIST2 antibody (66544-1-Ig, Clone: 1B12D11) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).