

For Research Use Only

# CoraLite®594-conjugated TWIST2 Monoclonal antibody



Catalog Number:CL594-66544

## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>CL594-66544      | <b>GenBank Accession Number:</b><br>BC033168      | <b>Purification Method:</b><br>Protein G purification                 |
| <b>Size:</b><br>1000 µg/ml                 | <b>GeneID (NCBI):</b><br>117581                   | <b>CloneNo.:</b><br>1B12D11   |
| <b>Source:</b><br>Mouse                    | <b>UNIPROT ID:</b><br>Q8WVJ9                      | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                        |
| <b>Isotype:</b><br>IgG1                    | <b>Full Name:</b><br>twist homolog 2 (Drosophila) | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>588 nm / 604 nm |
| <b>Immunogen Catalog Number:</b><br>AG2348 | <b>Calculated MW:</b><br>160 aa, 18 kDa           |   |
|  | <b>Observed MW:</b><br>22 kDa                     |   |

## Applications

|   |  |
|---|--|
| <b>Tested Applications:</b><br>IF/ICC, FC (Intra) | <b>Positive Controls:</b><br>IF : HepG2 cells, |
| <b>Species Specificity:</b><br>Human, rat, mouse  |  |

## 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).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

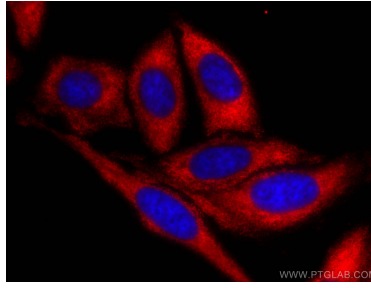
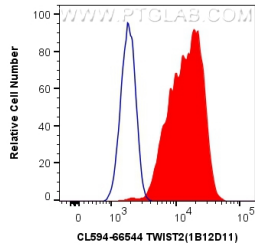
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## Selected Validation Data



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4  $\mu$ g CoraLite®594 Anti-Human TWIST2 (CL594-66544, Clone:1B12D11) (red), or 0.4  $\mu$ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite®594 TWIST2 antibody (CL594-66544, Clone: 1B12D11) at dilution of 1:200.