

TWIST2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2204a**Specification****TWIST2 Antibody - Product Information**

| | |
|-------------------|------------------------|
| Application | WB, E |
| Primary Accession | Q8WVJ9 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Calculated MW | 18.1kDa KDa |

Description

The protein encoded by this gene is a basic helix-loop-helix type transcription factor and shares similarity with Twist. This protein may inhibit osteoblast maturation and maintain cells in a preosteoblast phenotype during osteoblast development. This gene may be upregulated in certain cancers. Mutations in this gene cause focal facial dermal dysplasia 3, Setleis type. Two transcript variants encoding the same protein have been found.

Immunogen

Purified recombinant fragment of human TWIST2 (AA: 1-160) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

TWIST2 Antibody - Additional Information

Gene ID 117581

Other Names

Twist-related protein 2, Class A basic helix-loop-helix protein 39, bHLHa39, Dermis-expressed protein 1, Dermo-1, TWIST2, BHLHA39, Dermo1

Dilution

WB~~1/500 - 1/2000
E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TWIST2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TWIST2 Antibody - Protein Information

Name TWIST2

Synonyms BHLHA39, Dermo1

Function

Binds to the E-box consensus sequence 5'-CANNTG-3' as a heterodimer and inhibits transcriptional activation by MYOD1, MYOG, MEF2A and MEF2C. Also represses expression of pro-inflammatory cytokines such as TNFA and IL1B. Involved in postnatal glycogen storage and energy metabolism (By similarity). 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.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:11062344}.
Cytoplasm Note=Mainly nuclear during embryonic development. Cytoplasmic in adult tissues

Tissue Location

In the embryo, highly expressed in chondrogenic cells. In embryonic skin, expressed in the undifferentiated mesenchymal layer beneath the epidermis which later develops into the dermis. Expressed in early myeloid cells but not in lymphoid cells in the liver. Expression also detected in the secretory ependymal epithelium of the choroid plexus primordium. In the adult, expressed in secreting glandular tissues and tubules.

TWIST2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)