10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TWIST2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2204a

Product Information

Application	WB, E
Primary Accession	Q8WVJ9
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1A11D9
Isotype	IgG1
Calculated MW	18124
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

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.

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.

References

1.World J Gastroenterol. 2013 Apr 21;19(15):2404-11.2.Oncotarget. 2011 Dec;2(12):1165-75.

Images