

SOX5 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10494

Product Information

Application	WB
Primary Accession	P35711
Other Accession	NM_006940 , NP_008871
Reactivity	Human, Mouse, Rat, Pig
Predicted	Human, Mouse, Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84026

Additional Information

Gene ID	6660
Alias Symbol	L-SOX5, MGC35153
Other Names	Transcription factor SOX-5, SOX5
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SOX5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SOX5 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SOX5 {ECO:0000303 PubMed:12406576, ECO:0000312 HGNC:HGNC:11201}
Function	Transcription factor involved in chondrocytes differentiation and cartilage formation. Specifically binds the 5'-AACAAT-3' DNA motif present in enhancers and super-enhancers and promotes expression of genes important for chondrogenesis, including cartilage matrix protein- coding genes, such as COL2A1 and AGC1. Required for overt chondrogenesis when condensed prechondrocytes differentiate into early stage chondrocytes: SOX5 and SOX6 cooperatively bind with SOX9 on active enhancers and super-enhancers associated with cartilage-specific genes, and thereby potentiate SOX9's ability to transactivate. Not involved in precartilaginous condensation, the first step in chondrogenesis, during which skeletal progenitors differentiate into prechondrocytes. Together with SOX6, required to form and maintain a pool

of highly proliferating chondroblasts between epiphyses and metaphyses, to form columnar chondroblasts, delay chondrocyte prehypertrophy but promote hypertrophy, and to delay terminal differentiation of chondrocytes on contact with ossification fronts. Binds to the proximal promoter region of the myelin protein MPZ gene.

Cellular Location Nucleus {ECO:0000250|UniProtKB:P35710}.

Images



WB Suggested Anti-SOX5 Antibody Titration: .2-1 ug/ml
ELISA Titer: 1:3125
Positive Control: MCF7 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.