

**SOX5 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10494****Specification****SOX5 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P35711</a>
Other Accession	<a href="#">NM_006940</a> , <a href="#">NP_008871</a>
Reactivity	Human, Mouse, Rat, Pig, Horse
Predicted	Human, Mouse, Pig, Chicken, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84kDa KDa

**SOX5 antibody - N-terminal region - Additional Information****Gene ID** 6660

Alias Symbol	L-SOX5, MGC35153
<b>Other Names</b>	
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.

**SOX5 antibody - N-terminal region - 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}.

**SOX5 antibody - N-terminal region - 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](#)

