

**SOX5 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56572****Specification**

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**SOX5 Polyclonal Antibody - Product Information**

Application	<b>IHC-P, IHC-F, IF, ICC</b>
Primary Accession	<a href="#">P35711</a>
Reactivity	<b>Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>84026</b>

**SOX5 Polyclonal Antibody - Additional Information****Gene ID** 6660**Other Names**Transcription factor SOX-5, SOX5  
{ECO:0000303|PubMed:12406576,  
ECO:0000312|HGNC:HGNC:11201}**Format**0.01M TBS(pH7.4) with 1% BSA, 0.09%  
(W/V) sodium azide and 50% Glyce**Storage**Store at -20 °C for one year. Avoid repeated  
freeze/thaw cycles. When reconstituted in  
sterile pH 7.4 0.01M PBS or diluent of  
antibody the antibody is stable for at least  
two weeks at 2-4 °C.**SOX5 Polyclonal Antibody - 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'-AACAAAT-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 Polyclonal 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](#)