

Product datasheet for **AP11363PU-N**

SOX9 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA 1:1,000. Western blot 1:50 - 1:100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the Center region of human SOX9.
Specificity:	This antibody detects SOX9 at center.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS, then purified by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	SRY-box 9
Database Link:	Entrez Gene 6662 Human P48436



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Background:

SOX9 is a member of the family of SOX (Sry-type high mobility group box) genes that were first identified on the basis of region with high homology to that of Sry (Sex determining region Y). SOX9 is a transcription factor with a high mobility group DNA-binding domain that is expressed in all prechondrocytic and chondrocytic cells during embryonic development in a pattern that close parallels that of the gene for type II collagen. SOX9 is important in neural crest formation, and is involved in regulating subsequent epithelial-mesenchymal transition and migration.

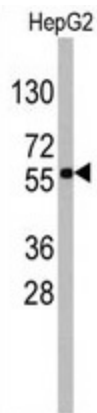
SOX9 recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the skeletal malformation syndrome campomelic dysplasia, frequently with sex reversal.

Synonyms:

Transcription factor SOX-9, SRY-box 9, SRA1, CMD1, CMPD1

Note:

Molecular weight: 56137 Da

Product images:

Western blot analysis of anti-SOX9 Antibody (Center) in HepG2 cell line lysates (35 ug/lane). SOX9 (arrow) was detected using the purified Pab (1:60 dilution).