

## Product datasheet for **TA354841**

### SOX9 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	Dot, WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide surrounding the epitope -RKSVK- with a single phosphorylation site Ser181. This sequence is identical among human, rat, mouse, bovine, chicken, and dog.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56 kDa
Gene Name:	SRY-box 9
Database Link:	<a href="#">NP_000337</a> <a href="#">Entrez Gene 20682 Mouse</a> <a href="#">Entrez Gene 140586 Rat</a> <a href="#">Entrez Gene 6662 Human</a> <a href="#">P48436</a>

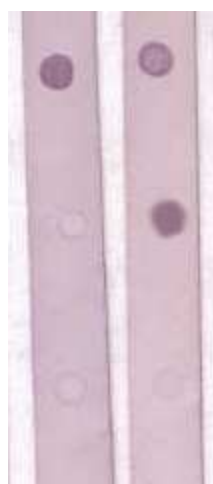


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- Background:** The SOX9 is a member of the SOX [Sry-related high-mobility group (HMG) box] family of HMG DNA-binding domain transcription factors and is required for the development and differentiation of multiple cell lineages. SOX9 is expressed in primary prostate cancers in vivo, at a higher frequency in recurrent prostate cancer and in prostate cancer cell lines (LNCaP, CWR22, PC3, and DU145). It has been reported that the cAMP/PKA stimulation induces SOX-9 nuclear translocation via facilitating its nuclear import by the phosphorylation of SOX-9 at Ser64 and Ser181. SOX9 in prostate basal cells supports the development and maintenance of the luminal epithelium and that a subset of prostate cancer cells may escape basal cell requirements through SOX9 expression.
- Synonyms:** CMD1; CMPD1; SRA1; SRXX2; SRXY10
- Protein Families:** Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

**Product images:**

WB: The whole cell lysate derived from conditioned LNCaP were immunoblotted Rabbit anti-SOX-9 (pSer181) at 1:500.



DB: 1 ug peptide was blot onto NC membrane A: SOX-9 (pS181) B: SOX-9 (Paired S181) (Nonphospho); C: Non-related phosphospecific PP were blotted at a 1:1000 dilution by: 1: Rabbit anti-SOX-9 (pS181); 2: Rabbit anti-SOX-9 (paired 181),