SOX3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SOX3, Polyclonal Antibody
Full Product Name	SOX3, ID (SOX3, Transcription factor SOX-3) (MaxLight 750)
Product Gene Name	anti-SOX3 antibody
Product Synonym Names	SOX3; Transcription factor SOX-3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45,210 Da
OMIM	300123
3D Structure	ModBase 3D Structure for P41225
Immunogen	SOX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 173-204 amino acids from the Central region of human SOX3.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-SOX3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SOX3 antibody	Western Blot (WB), FLISA
Application Notes for anti-SOX3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SOX3 antibody	This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. Mutations in this gene have been associated with X-linked mental retardation with growth hormone deficiency.
Product References and Citations for anti-SOX3 antibody	Dateki, S., et al. J. Clin. Endocrinol. Metab. 95(8):4043-4047(2010). Sato, Y., et al. Mol. Cell. Biochem. 337 (1-2), 267-275 (2010): Mojsin, M., et al. Biochem. J. 425(1):107-116(2010). Bleyl, S.B., et al. Am. J. Med. Genet. A 143A (23), 2785-2795 (2007): Krstic, A., et al. Arch. Biochem. Biophys. 467(2):163-173(2007).
Other Notes	Small volumes of anti-SOX3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for SOX3 purchase	MBS6350039 is an antibody targeting SOX3. Also known as SOX3, ID (SOX3, Transcription factor SOX-3) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOX3. It may not necessarily be applicable to this product.

NCBI GI #	30061556
NCBI GeneID	6658
NCBI Accession #	NP_005625.2
UniProt Primary Accession #	P41225
UniProt Secondary Accession #	P35714; Q5JWI3; Q9NP49
UniProt Related Accession #	P41225
GenBank Nucleotide #	NM_005634.2
NCBI Official Full Name	transcription factor SOX-3
NCBI Official Synonym Full Names	SRY (sex determining region Y)-box 3
NCBI Official Symbol	SOX3
NCBI Official Synonym Symbols	PHP; GHDX; MRGH; PHPX; SOXB
UniProt Protein Name	Transcription factor SOX-3
Protein Family	Transcription factor
UniProt Gene Name	SOX3
UniProt Entry Name	SOX3_HUMAN
NCBI Protein Information	transcription factor SOX-3

UniProt Comments for SOX3	SOX3: Transcription factor required during the formation of the hypothalamo-pituitary axis. May function as a switch in neuronal development. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation. Required also within the pharyngeal epithelia for craniofacial morphogenesis. Controls a genetic switch in male development. Is necessary for initiating male sex determination by directing the development of supporting cell precursors (pre-Sertoli cells) as Sertoli rather than granulosa cells. Defects in SOX3 are a cause of panhypopituitarism X- linked (PHPX). Affected individuals have absent infundibulum, anterior pituitary hypoplasia, and ectopic posterior pituitary. Defects in SOX3 are the cause of mental retardation X- linked with isolated growth hormone deficiency (MRXGH). Defects in SOX3 are the cause of 46,XX sex reversal type 3 (SRXX3). A condition in which male gonads develop in a genetic female (female to male sex reversal). Copy number variations (CNV) encompassing or in close proximity to SOX3 are responsible for XX male reversal. These variations include two duplications of approximately 123 kb and 85 kb, the former of which spans the entire SOX3 gene; a 343 kb deletion immediately upstream of SOX3 that is probably responsible of altered regulation (and not increased dosage) of SOX3; a large (approximately 6 Mb) duplication that encompasses SOX3 and at least 18 additional distally located genes. Its proximal breakpoint falls within the SOX3 regulatory region. This large rearrangement has been found in a patient with XX male reversal and a complex phenotype that also includes a scrotal hypoplasia, microcephaly, developmental delay, and growth retardation. Protein type: Nuclear receptor co-regulator; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: Xq27.1 Cellular Component: nucleus Molecular Function: DNA binding; transcription factor activity Biological Process: sex determination; negative regulation of neuron differentiation; spermatid differentiation; hypothalamus development; organ morphogenesis; central nervous system development; sensory organ development; transcription, DNA-dependent; pituitary gland development; neuron development; negative regulation of transcription from RNA polymerase II promoter; Sertoli cell development Disease: Panhypopituitarism, X-linked; Mental Retardation, X-linked, With Panhypopituitarism
Research Articles on SOX3	**1.** Overexpression of Sox3 is associated with esophageal squamous cell carcinoma.
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