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SOX3 Antibody (Center P204)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12071c

Product Information

Application	WB, FC, E
Primary Accession	P41225
Other Accession	P53784, Q6EJB7, P48433, Q5FWM3, P55863, Q2PG84, P53783, O00570, O57401, Q2Z1R2, Q6DGL6, NP_005625.2
Reactivity	Human
Predicted	Zebrafish, Chicken, Mouse, Xenopus, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14354
Calculated MW	45210
Antigen Region	189-218

Additional Information

Gene ID	6658
Other Names	Transcription factor SOX-3, SOX3
Target/Specificity	This SOX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 189-218 amino acids from the Central region of human SOX3.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SOX3 Antibody (Center P204) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SOX3
Function	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 (By similarity).

Cellular Location Nucleus.

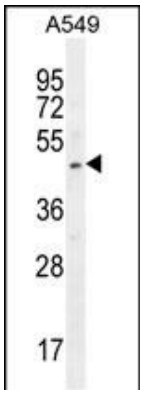
Background

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.

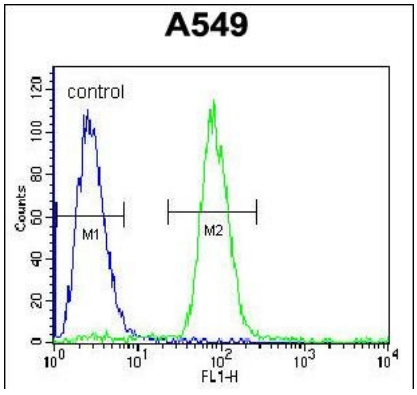
References

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Mojsin, M., et al. Biochem. J. 425(1):107-116(2010)
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Images



SOX3 Antibody (Center P204) (Cat. #AP12071c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the SOX3 antibody detected the SOX3 protein (arrow).



SOX3 Antibody (Center P204) (Cat. #AP12071c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.