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(Mouse) Sox15 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21013c

Product Information

Application	WB, E
Primary Accession	P43267
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51530
Calculated MW	25311

Additional Information

Gene ID	20670
Other Names	Protein SOX-15, Sox15, Sox-15
Target/Specificity	This (Mouse) Sox15 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 152-165 amino acids from the C-terminal region of human (Mouse) Sox15.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	(Mouse) Sox15 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

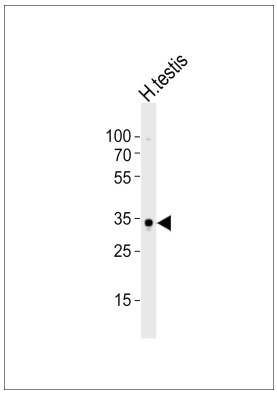
Name	Sox15 {ECO:0000312|MGI:MGI:98363}
Function	Transcription factor that binds to DNA at the 5'-AACAATG-3' consensus sequence (PubMed:10821863, PubMed:15863505, PubMed:16759287, PubMed:17363903). Acts as a transcriptional activator and repressor (PubMed:10821863, PubMed:15863505, PubMed:16759287). Binds synergistically with POU5F1 (OCT3/4) to gene promoters (PubMed:15863505).

	Binds to the FOXK1 promoter and recruits FHL3, resulting in transcriptional activation of FOXK1 which leads to myoblast proliferation (PubMed:17363903). Acts as an inhibitor of myoblast differentiation via transcriptional repression which leads to down-regulation of the muscle-specific genes MYOD and MYOG (PubMed:10821863). Involved in trophoblast giant cell differentiation via enhancement of HAND1 transcriptional activity (PubMed:16759287). Regulates transcription of HRC via binding to its proximal enhancer region (PubMed:15863505). Involved in skeletal muscle regeneration (PubMed:15367664, PubMed:17363903). Also plays a role in the development of myogenic precursor cells (PubMed:15367664).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:10821863, ECO:0000269|PubMed:15367664, ECO:0000269|PubMed:17363903}
Tissue Location	Expressed in myoblasts (at protein level) (PubMed:15367664). Expressed in embryonic stem cells (at protein level) (PubMed:15367664, PubMed:15863505). Expressed in myogenic progenitor cells (at protein level) (PubMed:17363903). Expressed in the ovary (PubMed:15367664). Expressed in kidney, liver, skeletal muscle, and testes (PubMed:10821863, PubMed:15367664). Expressed in lung and skin (PubMed:15863505). Expressed in the brain, heart, diaphragm, and intestines (PubMed:10821863). Expressed in the conceptus tissues of the placenta (PubMed:16759287).

References

Miyashita A.,et al.Gene 237:53-60(1999).
Beranger F.,et al.J. Biol. Chem. 275:16103-16109(2000).
Liu Y.,et al.Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
Stock D.W.,et al.Genomics 37:234-237(1996).
van de Wetering M.,et al.Nucleic Acids Res. 21:1669-1669(1993).

Images



Western blot analysis of lysate from human testis tissue lysate, using Sox15 Antibody (C-term)(Cat. #AP21013c). AP21013c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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