

Product datasheet

Anti-SOX3 antibody ab104248

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概述

产品名称	Anti-SOX3抗体
描述	山羊多克隆抗体to SOX3
宿主	Goat
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Dog
免疫原	Synthetic peptide (C-DAASPLPGGRLHGVH) corresponding to C terminal amino acids 413-427 of Human SOX3 (NP_005625.2). Run BLAST with Run BLAST with
阳性对照	Human Brain (Cerebellum, Cerebral Cortex and Frontal Cortex) lysates.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
纯度	Immunogen affinity purified
纯化说明	ab104248 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab104248** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		Use a concentration of 0.5 - 1.5 µg/ml. Predicted molecular weight: 45 kDa.
IHC-P		Use a concentration of 3 - 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能 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.

疾病相关 Defects in SOX3 are a cause of panhypopituitarism X-linked (PHPX) [MIM:312000]. 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) [MIM:300123].

Defects in SOX3 are the cause of 46,XX sex reversal type 3 (SRXX3) [MIM:300833]. A condition in which male gonads develop in a genetic female (female to male sex reversal). Note=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.

序列相似性 Contains 1 HMG box DNA-binding domain.

细胞定位 Nucleus.

图片

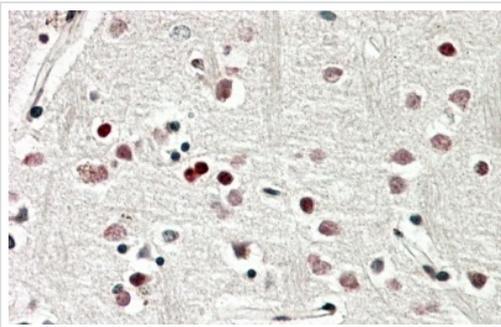


Anti-SOX3 antibody (ab104248) at 0.5 µg/ml
+ Human Cerebral Cortex lysate in RIPA buffer
at 35 µg

Developed using the ECL technique.

Predicted band size: 45 kDa

Observed band size: ~42 kDa



ab104248 (3.8µg/ml) staining of paraffin embedded Human Cerebral Cortex shows nuclear staining at various intensities along the neuronal cells. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOX3 antibody (ab104248)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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