abcam

# Product datasheet

# Anti-FOXL2 antibody ab49293

1 图像

## 概述

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|---|---|
| **产品名称** | Anti-FOXL2抗体 |
| **描述** | **兔多克隆抗体**to FOXL2 |
| **宿主** | Rabbit |
| **经测试应用** | **适用于:** ELISA, WB |
| **种属反应性** | **与反应:** Human<br>**预测可用于:** Dog, Pig |
| **免疫原** | A region within synthetic peptide: MMASYPEPED AAGALLAPET GRTVKEPEGP PPSPGKGGGG GGGTAPEKPD, corresponding to N terminal amino acids 1-50 of Human FOXL2<br>Run BLAST with ExPASy Run BLAST with NCBI |
| **阳性对照** | Jurkat cell lysate |

## 性能

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| **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: None<br>Constituents: 2% Sucrose, PBS |
| **纯度** | Protein A purified |
| **克隆** | **多克隆** |
| **同种型** | IgG |

## 应用

Our Abpromise guarantee covers the use of **ab49293** 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 |
|---|---|---|
| ELISA | | Use at an assay dependent concentration.<br>ELISA titre using peptide based assay: 1:312500. |
| WB | | Use a concentration of 1.25 µg/ml. Detects a band of approximately 44 kDa (predicted molecular weight: 39 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T. |

## 靶标

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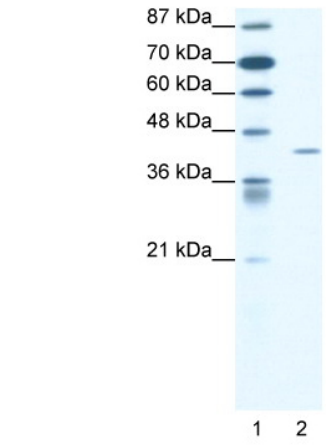
|---|---|
| **功能** | Transcriptional regulator. Critical factor essential for ovary differentiation and maintenance, and repression of the genetic program for somatic testis determination. Prevents trans-differentiation of ovary to testis throught transcriptional repression of the Sertoli cell-promoting gene SOX9 (By similarity). Has apoptotic activity in ovarian cells. Suppresses ESR1-mediated transcription of PTGS2/COX2 stimulated by tamoxifen (By similarity). Is a regulator of CYP19 expression (By similarity). Participates in SMAD3-dependent transcription of FST via the intronic SMAD-binding element (By similarity). Is a transcriptional repressor of STAR. Activates SIRT1 transcription under cellular stress conditions. Activates transcription of OSR2. |
| **组织特异性** | In addition to its expression in the developing eyelid, it is transcribed very early in somatic cells of the developing gonad (before sex determination) and its expression persists in the follicular cells of the adult ovary. |
| **疾病相关** | Defects in FOXL2 are a cause of blepharophimosis, ptosis, and epicanthus inversus syndrome (BPES) [MIM:110100]; also known as blepharophimosis syndrome. It is an autosomal dominant disorder characterized by eyelid dysplasia, small palpebral fissures, drooping eyelids and a skin fold running inward and upward from the lower lid. In type I BPSE (BPES1) eyelid abnormalities are associated with female infertility. Affected females show an ovarian deficit due to primary amenorrhea or to premature ovarian failure (POF). In type II BPSE (BPES2) affected individuals show only the eyelid defects. There is a mutational hotspot in the region coding for the poly-Ala domain, since 30% of all mutations in the ORF lead to poly-Ala expansions, resulting mainly in BPES type II.<br>Defects in FOXL2 are a cause of premature ovarian failure type 3 (POF3) [MIM:608996]. An ovarian disorder defined as the cessation of ovarian function under the age of 40 years. It is characterized by oligomenorrhea or amenorrhea, in the presence of elevated levels of serum gonadotropins and low estradiol. |
| **序列相似性** | Contains 1 fork-head DNA-binding domain. |
| **翻译后修饰** | Sumoylated by SUMO1; sumoylation is required for transcriptional repression activity. |
| **细胞定位** | Nucleus. |

## 图片




Western blot - Anti-FOXL2 antibody (ab49293)

**Lane 2 :** Anti-FOXL2 antibody (ab49293) at 1.25 µg/ml

**Lane 1 :** MW marker

**Lane 2 :** Jurkat cell lysate at 10 µg

**Secondary**

**Lane 2 :** HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size:** 39 kDa

**Observed band size:** 44 kDa



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