

# Anti-TR4 antibody [EPR1773(2)] ab109301

重组 RabMAb

**9 References** 7 图像

### 概述

产品名称	Anti-TR4抗体[EPR1773(2)]
描述	兔单克隆抗体[EPR1773(2)] to TR4
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IP <b>不适用于:</b> ICC/IF or IHC-P
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	PC3 cell lysate, 293T cell lysate; Human testis tissue
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1773(2)
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab109301于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 67 kDa (predicted molecular weight: 65 kDa).
<b>IP</b>		1/10 - 1/100.

**应用说明**      Is unsuitable for ICC/IF or IHC-P.

## 靶标

**功能**      Orphan nuclear receptor that can act as a repressor or activator of transcription. An important repressor of nuclear receptor signaling pathways such as retinoic acid receptor, retinoid X, vitamin D3 receptor, thyroid hormone receptor and estrogen receptor pathways. May regulate gene expression during the late phase of spermatogenesis. Together with NR2C1, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription including that of GATA1. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Plays a fundamental role in early embryonic development and embryonic stem cells. Required for normal spermatogenesis and cerebellum development. Appears to be important for neurodevelopmentally regulated behavior (By similarity). Activates transcriptional activity of LHCG. Antagonist of PPARA-mediated transactivation.

**序列相似性**      Belongs to the nuclear hormone receptor family. NR2 subfamily.  
Contains 1 nuclear receptor DNA-binding domain.

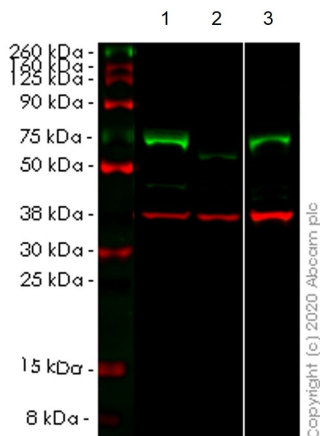
**发展阶段**      Transiently repressed during the meiotic phase of spermatogenesis.

**翻译后修饰**      Phosphorylation on Ser-19 and Ser-68 is an important regulator of NR2C2-mediated transcriptional activity. Phosphorylation on these residues recruits the corepressor, NRIP1, leading to transcriptional repression, whereas the nonphosphorylated form preferentially recruits the coactivator, PCAF.

**细胞定位**      Nucleus.

**形式**      There are 2 isoforms produced by alternative splicing.

## 图片



Western blot - Anti-TR4 antibody [EPR1773(2)]  
(ab109301)

**All lanes** : Anti-TR4 antibody [EPR1773(2)] (ab109301) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : NR2C2 CRISPR/Cas9 edited HEK293T cell lysate

**Lane 3** : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

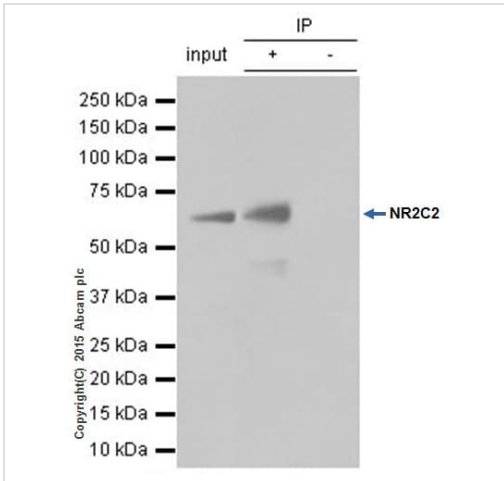
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 65 kDa

**Observed band size:** 67 kDa

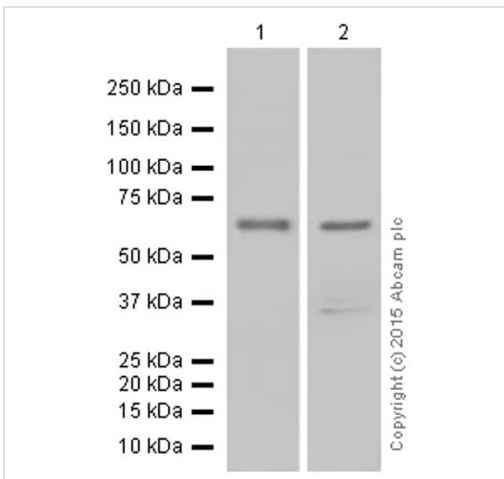
**Lanes 1-3:** Merged signal (red and green). Green - ab109301 observed at 67 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab109301 Anti-TR4 antibody [EPR1773(2)] was shown to specifically react with TR4 in wild-type HEK293T cells. The band observed in CRISPR/Cas9 edited cell line **ab266228** (CRISPR/Cas9 edited cell lysate **ab257563**) lane below 67 kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type and TR4 CRISPR/Cas9 edited samples were subjected to SDS-PAGE. ab109301 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunoprecipitation - Anti-TR4 antibody  
[EPR1773(2)] (ab109301)

ab109301 (purified) at 1/30 immunoprecipitating TR4 in 10 µg HEK293 cell lysate (Lanes 1 and 2, observed at 67 kDa). Lane 3 - Rabbit monoclonal IgG (**ab172730**). For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution. Blocking buffer and concentration: 5% NFDm/TBST Dilution buffer and concentration: 5% NFDm/TBST



Western blot - Anti-TR4 antibody [EPR1773(2)]  
(ab109301)

**All lanes** : Anti-TR4 antibody [EPR1773(2)] (ab109301) at 1/5000 dilution (purified)

**Lane 1** : PC-12 whole cell lysate

**Lane 2** : 3T3-L1 whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

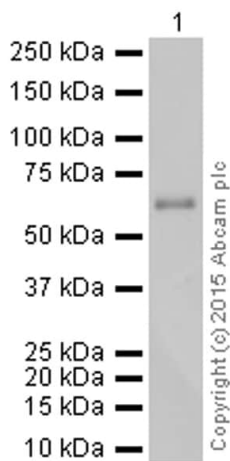
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 65 kDa

**Observed band size:** 67 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-TR4 antibody [EPR1773(2)]  
(ab109301)

Anti-TR4 antibody [EPR1773(2)] (ab109301) at 1/5000 dilution  
(purified) + HEK-293 whole cell lysate at 20 µg

**Secondary**

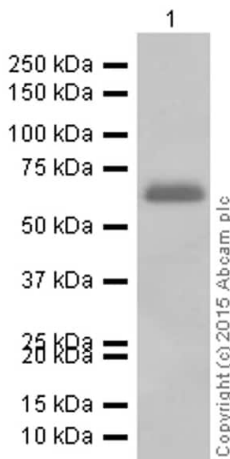
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 65 kDa

**Observed band size:** 67 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-TR4 antibody [EPR1773(2)]  
(ab109301)

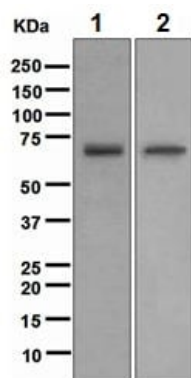
Anti-TR4 antibody [EPR1773(2)] (ab109301) at 1/2000 dilution  
(purified) + PC-3 whole cell lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 65 kDa

**Observed band size:** 67 kDa



Western blot - Anti-TR4 antibody [EPR1773(2)] (ab109301)

**All lanes** : Anti-TR4 antibody [EPR1773(2)] (ab109301) at 1/1000 dilution (Unpurified)

**Lane 1** : PC3 cell lysate

**Lane 2** : 293T cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 65 kDa

**Observed band size:** 67 kDa

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-TR4 antibody [EPR1773(2)] (ab109301)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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