


### Anti-TBR2 / Eomes antibody [EPR21950-241] ab216870

**重组** RabMAb

★★★★★ **8 Abreviews** **5 References** **8 图像**

#### 概述

产品名称	Anti-TBR2 / Eomes抗体[EPR21950-241]
描述	兔单克隆抗体[EPR21950-241] to TBR2 / Eomes
宿主	Rabbit
经测试应用	<b>适用于:</b> IHC-P, IHC-Fr, ICC/IF, IP <b>不适用于:</b> Flow Cyt or WB
种属反应性	<b>与反应:</b> Mouse, Rat, Human <b>预测可用于:</b> Hamster, Cat, Dog, Pig, Non human primates, Common marmoset 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human tonsil, E14.5 mouse cerebral cortex and E14.5 rat cerebral cortex tissues. IHC-Fr: Mouse E14.5 cerebrum and Rat E14.5 cerebrum tissue. ICC/IF: Mouse primary neuron/glia cells. IP: Mouse E14 brain tissue lysate.
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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR21950-241

同种型IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab216870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。

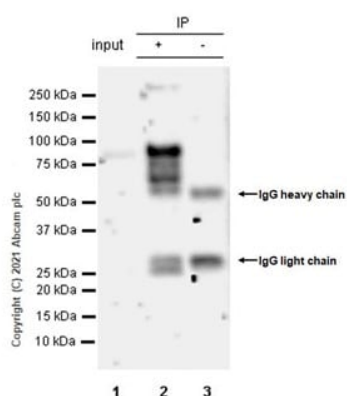
应用	Ab评论	说明
IHC-P	★★★★★ (5)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr	★★★★★ (1)	1/100.
ICC/IF	★★★★★ (1)	1/100.
IP		1/50.

应用说明      Is unsuitable for Flow Cyt or WB.

靶标

功能	Functions as a transcriptional activator playing a crucial role during development. Functions in trophoblast differentiation and later in gastrulation, regulating both mesoderm delamination and endoderm specification. Plays a role in brain development being required for the specification and the proliferation of the intermediate progenitor cells and their progeny in the cerebral cortex. Also involved in the differentiation of CD8+ T-cells during immune response regulating the expression of lytic effector genes.
组织特异性	Expressed in CD8+ T-cells.
疾病相关	Note=A translocation t(3;10)(p24;q23) located 215 kb 3' to the EOMES gene but leading to loss of its expression was identified in a large consanguineous family. Homozygous silencing produces microcephaly associated with corpus callosum agenesis, bilateral polymicrogyria, ventricular dilatation and a small cerebellum.
序列相似性	Contains 1 T-box DNA-binding domain.
发展阶段	Detected at 7 weeks of development in the forebrain floorplate of the CNS. Expressed within the mantle layer and migrating neuroblasts of the telencephalon at 12.5 weeks of development.
细胞定位	Nucleus.

图片



Immunoprecipitation - Anti-TBR2 / Eomes antibody  
[EPR21950-241] (ab216870)

TBR2 / Eomes was immunoprecipitated from 0.35mg Mouse E14 brain tissue lysate 10µg with ab216870 at 1/50 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab216870 1/1000 dilution (0.67 µg/ml). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used as the secondary antibody at 1/5000 dilution.

**Lane 1:** Mouse E14 brain tissue lysate 10 µg

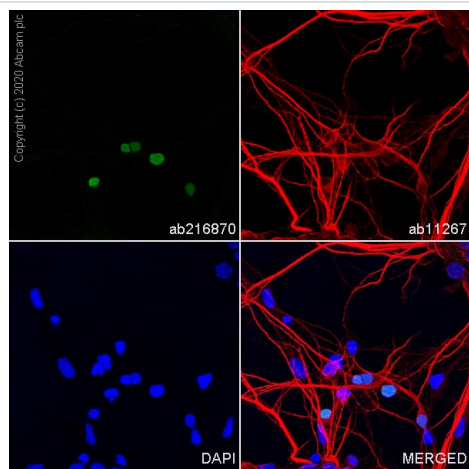
**Lane 2:** ab216870 IP in Mouse E14 brain tissue lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab216870 in Mouse E14 brain tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 min

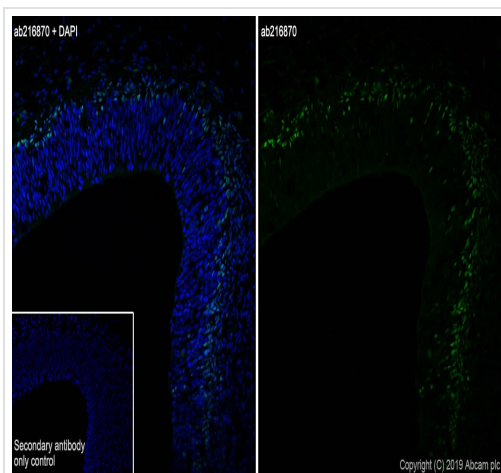
The band is consistent with what has been described in the literature (PMID: 26749212).



Immunocytochemistry/ Immunofluorescence - Anti-TBR2 / Eomes antibody [EPR21950-241]  
(ab216870)

Immunocytochemistry confocal image showing nuclear staining in mouse primary neuron cells. Anti-TBR2 is stained with ab216870 in a 1/100 dilution, and 2µg/ml AlexaFluor®488 Goat anti-Rabbit secondary ([ab150077](#)). Nuclear counterstaining is DAPI (blue).

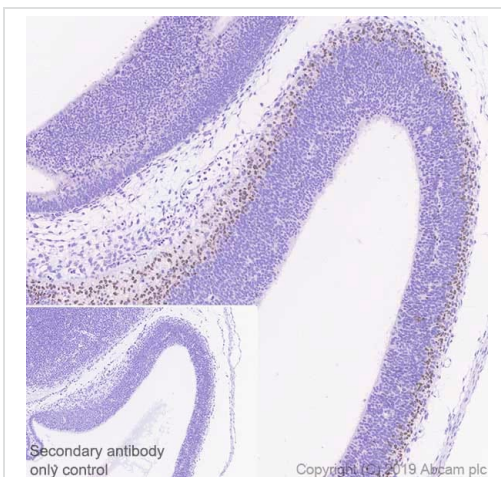
The negative control is [ab11267](#) Anti-MAP2 mouse monoclonal antibody with [ab150120](#) AlexaFluor®594 Goat anti-Mouse secondary.



Immunohistochemistry (Frozen sections) - Anti-TBR2 / Eomes antibody [EPR21950-241] (ab216870)

Immunohistochemical analysis of 4% PFA fixed 0.2% Triton X-100 permeabilized frozen Rat E14.5 cerebrum tissue labeling EOMES with ab216870 at 1/100 (5.75 µg/ml) dilution followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 (2 µg/ml) dilution. The nuclear counterstain was DAPI (Blue). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Positive staining in rat embryonic cerebrum (PMID: 24223221) is observed.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 (2 µg/ml) dilution.

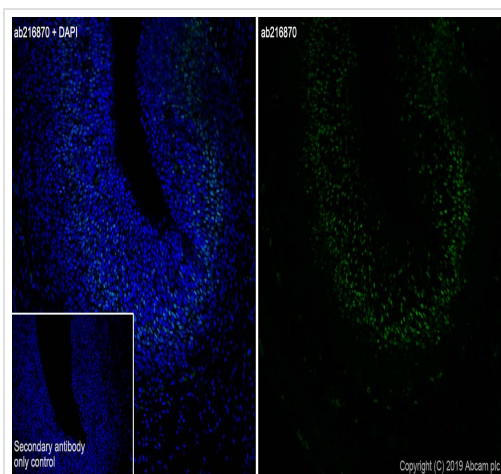


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR2 / Eomes antibody [EPR21950-241] (ab216870)

Immunohistochemical analysis of paraffin-embedded E14.5 rat cerebral cortex tissue labeling EOMES with ab216870 at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on E14.5 rat cerebral cortex (PMID: 18725516) is observed. The section was incubated with ab216870 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

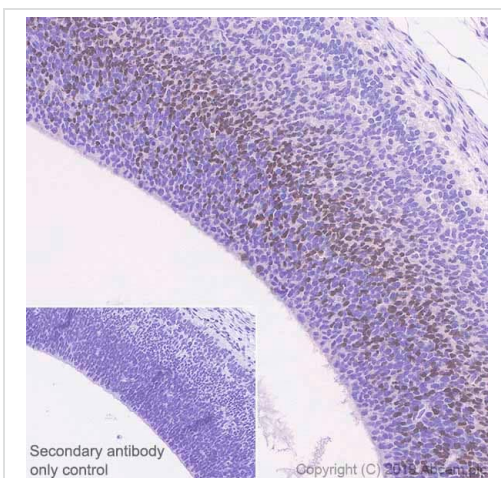
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunohistochemistry (Frozen sections) - Anti-TBR2 / Eomes antibody [EPR21950-241] (ab216870)

Immunohistochemical analysis of 4% paraformaldehyde-fixed 0.2% Triton X-100 permeabilized frozen Mouse E14.5 cerebrum tissue stained for EOMES using ab216870 at 1/100 dilution in immunohistochemical analysis. The secondary antibody was **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution. The nuclear counterstain was DAPI (Blue). Positive staining in mouse embryonic cerebrum (PMID: 24223221) is observed. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 (2 µg/ml) dilution.



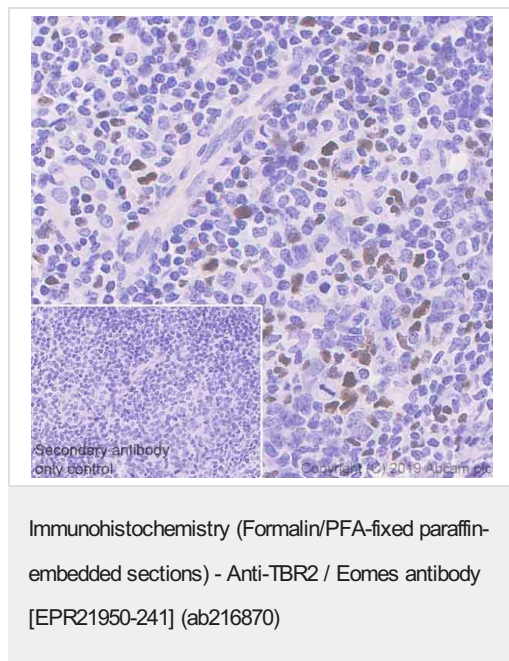
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR2 / Eomes antibody [EPR21950-241] (ab216870)

Immunohistochemical analysis of paraffin-embedded E14.5 mouse cerebral cortex tissue labeling EOMES with ab216870 at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on E14.5 mouse cerebral cortex (PMID: 18725516) The section was incubated with ab216870 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.





Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling EOMES with ab216870 at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on human tonsil is observed. The section was incubated with ab216870 for 30 mins at RT. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

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

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