




Product datasheet

Anti-NR2E3/RNR antibody ab172542

1 References 1 Image

Overview

<b>Product name</b>	Anti-NR2E3/RNR antibody
<b>Description</b>	Mouse polyclonal to NR2E3/RNR
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human NR2E3/RNR aa 1-410. Sequence:  <pre> METRPTALMSSTVAAAAPAAGAASRKESPGRWGLGE DPTGVSPSLQCRVC GDSSSGKHYGIACNGCSGFFKRSVRRRLIYRCQVGA GMCPVDKAHRNQC QACRLKKCLQAGMNQDAVQNERQPRSTAQVHLD SM ESNTESRPESLVAPP APAGRSPRGPTPMSAARALGHHFMASLITAETCAKLE PEDADENIDVTSN DPEFPSSPYSSSSPCGLDSIHETSARLLFMAVKWAKN LPVFSSLPFRDQV ILLEEAWSELFLGAIQWSLPLDSCPLLAPPEASAAGG AQGRLTLASMET RVLQETISRFRALAVDPTEFACMKALVLFKPETRGLKD PEHVEALQDQSQ VMLSQHSKAHHPSPVRFGKLLLLLPSLRFITAERIELL FFRKTIGNTPM EKLLCDMFKN </pre> Database link: <a href="#">NP_055064.1</a> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span> <a href="#">Run BLAST with</a></span> <span> <a href="#">Run BLAST with</a></span> </div>
<b>Positive control</b>	NR2E3/RNR transfected 293T cell lysate
<b>General notes</b>	This product was previously labelled as NR2E3

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Constituent: 100% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab172542** in the following tested applications.

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

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 45 kDa.

## Target

<b>Function</b>	Orphan nuclear receptor of retinal photoreceptor cells. Transcriptional factor that is an activator of rod development and repressor of cone development. Binds the promoter region of a number of rod- and cone-specific genes, including rhodopsin, M- and S-opsin and rod-specific phosphodiesterase beta subunit. Enhances rhodopsin expression. Represses M- and S-cone opsin expression.
<b>Tissue specificity</b>	Eye specific; found solely in the outer nuclear layer of the adult neurosensory retina, where the nuclei of cone and rod photoreceptors reside.
<b>Involvement in disease</b>	<p>Defects in NR2E3 are a cause of enhanced S cone syndrome (ESCS) [MIM:268100]. ESCS is an autosomal recessive retinopathy in which patients have increased sensitivity to blue light; perception of blue light is mediated by what is normally the least populous cone photoreceptor subtype, the S (short wavelength, blue) cones. ESCS is also associated with visual loss, with night blindness occurring from early in life, varying degrees of L (long, red)- and M (middle, green)-cone vision, and retinal degeneration.</p> <p>Defects in NR2E3 are the cause of retinitis pigmentosa type 37 (RP37) [MIM:611131]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP37 inheritance is autosomal dominant.</p>
<b>Sequence similarities</b>	Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.
<b>Post-translational modifications</b>	Di- and tri-sumoylated in developing retina. PIAS3-mediated sumoylation promotes repression of cone-specific gene expression and activation of rod-specific genes. Sumoylation on Lys-185 appears to be the main site.
<b>Cellular localization</b>	Nucleus.



**All lanes :** Anti-NR2E3/RNR antibody (ab172542) at 1 µg/ml

**Lane 1 :** NR2E3/RNR transfected 293T cell lysate

**Lane 2 :** Non transfected 293T cell lysate

Lysates/proteins at 15 µl per lane.

**Secondary**

**All lanes :** Goat Anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

**Predicted band size:** 45 kDa

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

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

**Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors