abcam

Product datasheet

Anti-CORD2 antibody ab78662

2 图像

概述

产品名称	Anti-CORD2抗体
描述	**兔多克隆抗体**to CORD2
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P
种属反应性	**与反应:** Rat **预测可用于:** Mouse, Cow, Cat, Dog, Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 150 - 250 of Human CORD2.参阅Abcam的专有抗源政策
阳性对照	购买相配的WB阳性对照 **Recombinant Human CORD2 protein** Recombinant Human CORD2 protein (ab117005) can be used as a positive control in WB. This antibody gave a positive signal in Rat Retina Tissue Lysate.

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab78662** 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 1 µg/ml. Detects a band of approximately 32 kDa (predicted molecular weight: 32 kDa).
IHC-P		Use a concentration of 1 µg/ml.

靶标

功能

Binds and transactivates the sequence 5'-TAATC[CA]-3' which is found upstream of several photoreceptor-specific genes, including the opsin genes. Acts synergistically with other transcription factors, e.g. NRL and RX, to regulate photoreceptor cell-specific gene transcription. Essential for the maintenance of mammalian photoreceptors.

组织特异性

Retina.

疾病相关

Defects in CRX are the cause of Leber congenital amaurosis type 7 (LCA7) [MIM:613829]. LCA designates a clinically and genetically heterogeneous group of childhood retinal degenerations, generally inherited in an autosomal recessive manner. Affected infants have little or no retinal photoreceptor function as tested by electroretinography. LCA represents the most common genetic cause of congenital visual impairment in infants and children.
Defects in CRX are the cause of cone-rod dystrophy type 2 (CORD2) [MIM:120970]; also known as cone-rod retinal dystrophy 2 (CRD2). CORDs are inherited retinal dystrophies belonging to the group of pigmentary retinopathies. CORDs are characterized by retinal pigment deposits visible on fundus examination, predominantly in the macular region, and initial loss of cone photoreceptors followed by rod degeneration. This leads to decreased visual acuity and sensitivity in the central visual field, followed by loss of peripheral vision. Severe loss of vision occurs earlier than in retinitis pigmentosa.
Defects in CRX are a cause of retinitis pigmentosa (RP) [MIM:268000]. 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.

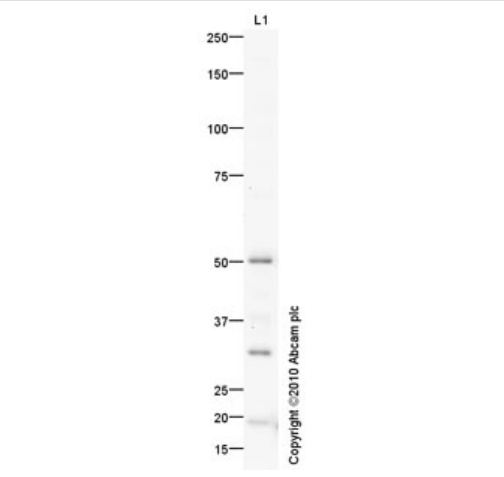
序列相似性

Belongs to the paired homeobox family.
Contains 1 homeobox DNA-binding domain.

细胞定位

Nucleus.

图片



Western blot - Anti-CORD2 antibody (ab78662)

Anti-CORD2 antibody (ab78662) at 1 µg/ml + Rat Retina Tissue Lysate at 10 µg

Secondary
Rabbit monoclonal [MC29] to PKC mu (phospho S916) (ab78080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 32 kDa
Observed band size: 32 kDa
Additional bands at: 18 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CORD2 antibody (ab78662)

IHC image of CORD2 staining in Mouse Eye FFPE section, performed on a BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab78662, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX

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