


Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] ab75749

敲除验证
重组
RabMAb

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概述

产品名称	Anti-PACT (PKR activating蛋白) / PRKRA抗体[EPR3224]
描述	兔单克隆抗体[EPR3224] to PACT (PKR activating蛋白) / PRKRA
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt, ICC/IF or IP
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide within Human PACT (PKR activating protein)/ PRKRA aa 300-400 (C terminal). The exact sequence is proprietary.
阳性对照	WB: HEK-293T, K562, Jurkat and HepG2 whole cell lysate (ab7900). IHC-P: Human brain tissue.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR3224
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab75749于以下的经测试应用

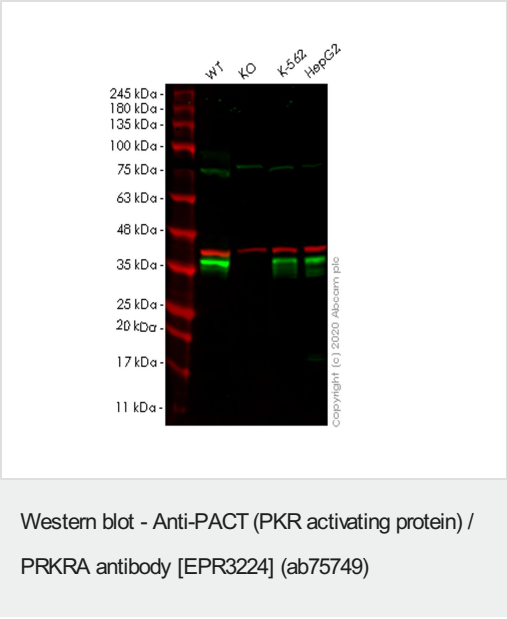
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		
IHC-P		

应用说明	<p>IHC-P: 1/100 - 1/250. Perform heat mediated antigen retrieval using 0.01M Sodium Citrate Buffer, pH 6.0 before commencing with IHC staining protocol.</p> <p>WB: 1/1000 - 1/5000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).</p> <p>Is unsuitable for Flow Cyt, ICC or IP.</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>
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靶标

功能	Activates EIF2AK2/PKR in the absence of double stranded RNA (dsRNA), leading to phosphorylation of EIF2S1/EIF2-alpha and inhibition of translation and induction of apoptosis. Required for siRNA production by DICER1 and for subsequent siRNA-mediated post-transcriptional gene silencing. Does not seem to be required for processing of pre-miRNA to miRNA by DICER1.
疾病相关	Defects in PRKRA are the cause of dystonia type 16 (DYT16) [MIM:612067]. DYT16 is an early-onset dystonia-parkinsonism disorder. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYT16 patients have progressive, generalized dystonia with axial muscle involvement, oro-mandibular (sardonic smile) and laryngeal dystonia and, in some cases, parkinsonian features.
序列相似性	Belongs to the PRKRA family. Contains 3 DRBM (double-stranded RNA-binding) domains.
结构域	Self-association may occur via interactions between DRBM domains as follows: DRBM 1/DRBM 1, DRBM 1/DRBM 2, DRBM 2/DRBM 2 or DRBM 3/DRBM3.
翻译后修饰	Phosphorylated at Ser-246 in unstressed cells and at Ser-287 in stressed cells. Phosphorylation at Ser-246 appears to be a prerequisite for subsequent phosphorylation at Ser-287. Phosphorylation at Ser-246 and Ser-287 are necessary for activation of EIF2AK2/PKR under conditions of stress.
细胞定位	Cytoplasm > perinuclear region.



All lanes : Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] (ab75749) at 1/1000 dilution

- Lane 1 :** Wild-type HEK-293T cell lysate
- Lane 2 :** PRKRA knockout HEK-293T cell lysate
- Lane 3 :** K-562 cell lysate
- Lane 4 :** HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

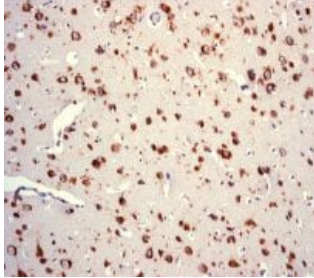
Secondary

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

Predicted band size: 34 kDa
Observed band size: 36 kDa

Lanes 1-4: Merged signal (red and green). Green - ab75749 observed at 36 kDa. Red - loading control **ab8245** observed at 36 kDa.

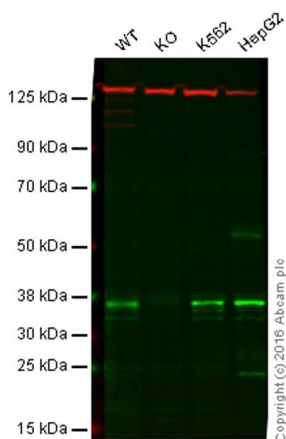
ab75749 Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] was shown to specifically react with PACT in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266806** (knockout cell lysate **ab258141**) was used. Wild-type and PACT knockout samples were subjected to SDS-PAGE. ab75749 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] (ab75749)

ab75749 at 1/100 dilution staining PACT (PKR activating protein) / PRKRA in paraffin-embedded human brain tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] (ab75749)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

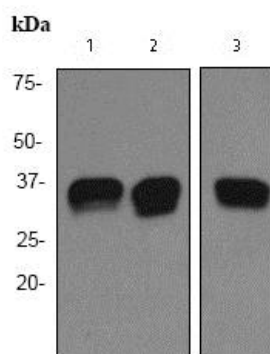
Lane 2: PACT (PKR activating protein)/PRKRA knockout HAP1 cell lysate (20 µg)

Lane 3: K562 cell lysate (20 µg)

Lane 4: HepG2 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab75749 observed at 36 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab75749 was shown to specifically react with PACT (PKR activating protein)/PRKRA when PACT (PKR activating protein)/PRKRA knockout samples were used. Wild-type and PACT (PKR activating protein)/PRKRA knockout samples were subjected to SDS-PAGE. ab75749 and **ab18058** (loading control to Vinculin) were diluted at 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) **ab216776** secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] (ab75749)

All lanes : Anti-PACT (PKR activating protein) / PRKRA antibody [EPR3224] (ab75749) at 1/1000 dilution

Lane 1 : K562 cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 34 kDa

Observed band size: 34 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-PACT (PKR activating protein) / PRKRA antibody [EPR3224] (ab75749)

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

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