abcam

Product datasheet

Anti-eIF4G1 antibody ab47649

★★★★★ **1 Abreviews** **8 References** 2 图像

概述

产品名称	Anti-eIF4G1抗体
描述	兔多克隆抗体to eIF4G1
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB
种属反应性	与反应: Human
	预测可用于: Mouse ⚠
免疫原	Synthetic peptide corresponding to eIF4G1 aa 300-400 conjugated to keyhole limpet haemocyanin. (Peptide available as **ab47648**)
阳性对照	This antibody gave a positive signal in HEK293 Human embryonic kidney cell line Whole Cell Lysate.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab47649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
ICC/IF		Use a concentration of 1 µg/ml.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 220 kDa (predicted molecular weight: 220 kDa).

靶标

功能	Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome.
疾病相关	Defects in EIF4G1 are the cause of Parkinson disease type 18 (PARK18) [MIM:614251]. An autosomal dominant, late-onset form of Parkinson disease. Parkinson disease is a complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain.
序列相似性	Belongs to the eIF4G family. Contains 1 MI domain. Contains 1 MIF4G domain. Contains 1 W2 domain.
翻译后修饰	Phosphorylated at multiple sites in vivo. Phosphorylation at Ser-1185 by PRKCA induces binding to MKNK1. Following infection by certain enteroviruses, rhinoviruses and aphthoviruses, EIF4G1 is cleaved by the viral protease 2A, or the leader protease in the case of aphthoviruses. This shuts down the capped cellular mRNA transcription.

图片
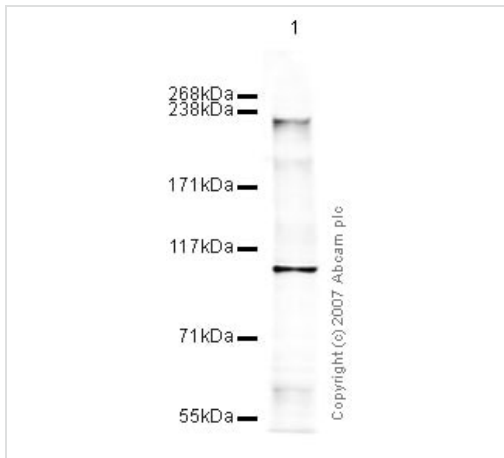
Western blot - Anti-eIF4G1 antibody (ab47649)

Anti-eIF4G1 antibody (ab47649) at 1 µg/ml + HEK293 Human embryonic kidney cell line Whole Cell Lysate at 10 µg
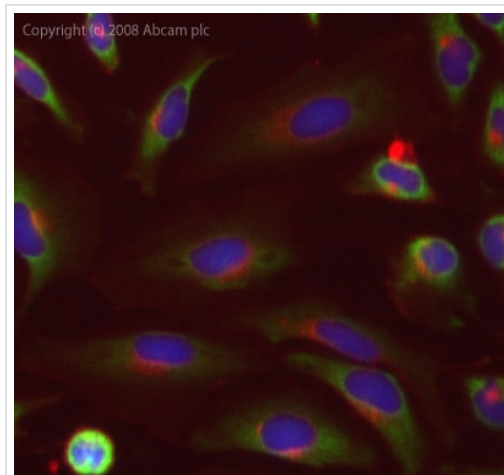
Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 220 kDa

Observed band size: 220 kDa

Additional bands at: 110 kDa. We are unsure as to the identity of these extra bands.

Immunocytochemistry/ Immunofluorescence - Anti-eIF4G1 antibody (ab47649)

ICC/IF image of ab47649 stained human HeLa cells. The cells were methanol fixed (5 min), permabilised in PBS-T (20 min) and incubated with the antibody (ab47649, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).

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