abcam

Product datasheet

Anti-Kappa Opioid Receptor antibody ab113533

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概述

产品名称	Anti-Kappa Opioid Receptor抗体
描述	**兔多克隆抗体**to Kappa Opioid Receptor
宿主	Rabbit
经测试应用	**适用于:** IHC-P, WB, ICC/IF
种属反应性	**与反应:** Human **预测可用于:** Rabbit, Chimpanzee, Macaque monkey, Gorilla, Orangutan
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	This antibody gave a positive signal in HEK293 whole cell lysates as well as the following Human tissue lysates: Brain; Spinal Cord; Placenta; Small Intestine. This antibody gave a positive result in IF in the following Formaldehyde fixed cell line: SKNSH This antibody gave a positive result in IHC in the following FFPE tissue: Human normal placenta.
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ab113533于以下的经测试应用**

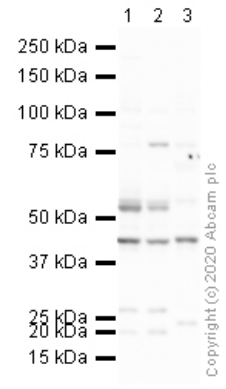
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★☆ (1)	Use a concentration of 5 µg/ml.
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

靶标

功能	Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Receptor for dynorphins. May play a role in arousal and regulation of autonomic and neuroendocrine functions.
序列相似性	Belongs to the G-protein coupled receptor 1 family.
细胞定位	Cell membrane.

图片



Western blot - Anti-Kappa Opioid Receptor antibody (ab113533)

All lanes : Anti-Kappa Opioid Receptor antibody (ab113533) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein
Lane 2 : Human spinal cord tissue lysate - total protein
Lane 3 : Human placenta tissue lysate - total protein

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

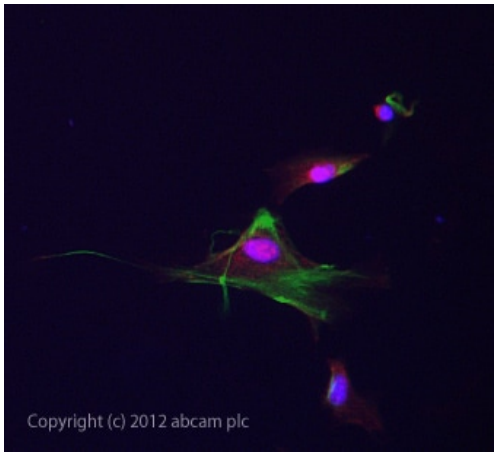
Performed under reducing conditions.

Predicted band size: 42 kDa

Observed band size: 42 kDa
Additional bands at: 52 kDa (possible non-specific binding)

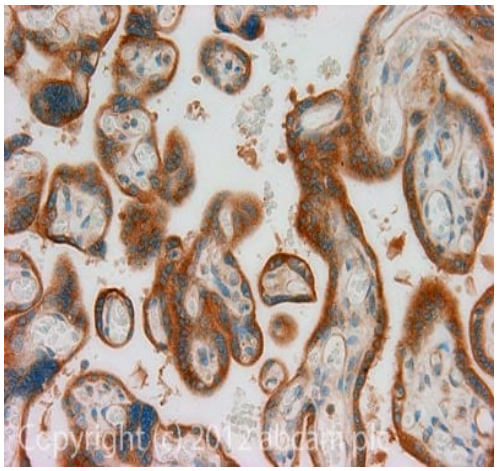
Exposure time: 3 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab113533 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution ab133406.



Immunocytochemistry/ Immunofluorescence - Anti-Kappa Opioid Receptor antibody (ab113533)

ab113533 stained SKNSH cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab113533 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Kappa Opioid Receptor antibody (ab113533)

IHC image of Kappa Opioid Receptor staining in Human normal placenta formalin fixed paraffin embedded tissue section, performed on a Leica 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 ab113533, 5µg/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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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