abcam

Product datasheet

Anti-Eph receptor A2 antibody [Ka-5H5] ab59551

2 图像

概述

产品名称	Anti-Eph receptor A2抗体[Ka-5H5]
描述	小鼠单克隆抗体[Ka-5H5] to Eph receptor A2
宿主	Mouse
特异性	ab59551 recognises the complete native EphA2 protein expressed on transfected mammalian cells.
经测试应用	**适用于:** Flow Cyt, ICC/IF
种属反应性	**与反应:** Human, Recombinant fragment
免疫原	cDNA encoding human EphA2.
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 long term.
存储溶液	pH: 7.20 Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	Ka-5H5
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab59551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
Flow Cyt		Use 1.2µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use 1µg for 10^6 cells.

靶标

功能 Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A3, -A4 and -A5. Plays an important role in angiogenesis and tumor neovascularization. The recruitement of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly (By similarity). Induces apoptosis in a p53/TP53-independent, caspase-8-dependent manner.

组织特异性 Expressed in brain and glioma tissue and glioma cell lines (at protein level). Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g., skin, intestine, lung, and ovary.

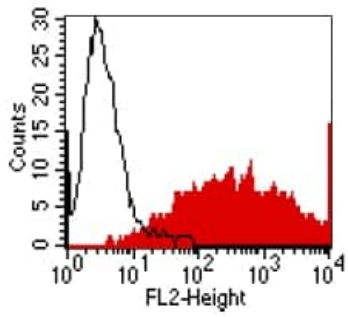
疾病相关 Genetic variations in EPHA2 are the cause of susceptibility to cataract cortical age-related type 2 (ARCC2) [MIM:613020]. A developmental punctate opacity common in the cortex and present in most lenses. The cataract is white or cerulean, increases in number with age, but rarely affects vision.
Defects in EPHA2 are the cause of cataract posterior polar type 1 (CTPP1) [MIM:116600]. A subcapsular opacity, usually disk-shaped, located at the back of the lens. It can have a marked effect on visual acuity.

序列相似性 Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
Contains 2 fibronectin type-III domains.
Contains 1 protein kinase domain.
Contains 1 SAM (sterile alpha motif) domain.

翻译后修饰 Activated by EFNA1 via tyrosine phosphorylation. Phosphorylated residues Tyr-588 and Tyr-594 are required for binding VAV2 and VAV3 while phosphorylated residues Tyr-735 and Tyr-930 are required for binding PI3-kinase p85 subunit. These phosphorylated residues are critical for recruitment of VAV2 and VAV3 and PI3-kinase p85 subunit which transduce downstream signaling to activate RAC1 GTPase and endothelial cell migration. They also play a critical role in transducing EPHA2 signaling in vascular endothelial cells during tumor angiogenesis.

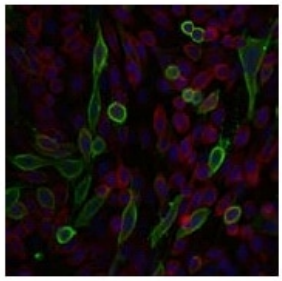
细胞定位 Membrane.

图片



Flow Cytometry - Anti-Eph receptor A2 antibody [Ka-5H5] (ab59551)

FACS analysis of BOSC23 cells using ab59551 at 1.2 µg/ 10^6 cells. BOSC23 cells were transiently trans-fected with an expression vector encoding either EphA2(red curve) or an irrelevant protein (control transfectant).Binding of ab59551 was detected with a PE-conjugatedsecondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Eph receptor A2 antibody [Ka-5H5] (ab59551)

Spectral Confocal Microscopy of CHO cells using ab59551 at 1µg/10^6 cells. CHO cells were transiently transfected with an expression vector encoding EphA2. Binding of ab59551 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).

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