abcam

Product datasheet

# Anti-FE65 antibody ab5668

**1 References** 3 图像

## 概述

| | |
|---|---|
| **产品名称** | Anti-FE65抗体 |
| **描述** | **兔多克隆抗体**to FE65 |
| **宿主** | Rabbit |
| **特异性** | This antibody does not detect endogenous levels of Fe65. |
| **经测试应用** | **适用于:** ICC/IF, WB |
| **种属反应性** | **与反应:** Mouse, Rat, Human |
| **免疫原** | Synthetic peptide corresponding to Mouse FE65 aa 352-369.<br>Sequence:<br>PQEEEKLSQRNANPGIKC<br><br>(Peptide available as **ab5892**)<br>Run BLAST with Run BLAST with |
| **阳性对照** | ICC/IF: SH-SY5Y (Human neuroblastoma cell line from bone marrow). WB: U-87 MG; SH-SY5Y; NTERA-2; U-2 OS; A549; Mouse Brain; PC-12 |
| **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.<br>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

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|---|---|
| **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: 0.05% Sodium azide<br>Constituents: 99% PBS, 0.1% BSA |
| **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ab5668于以下的经测试应用

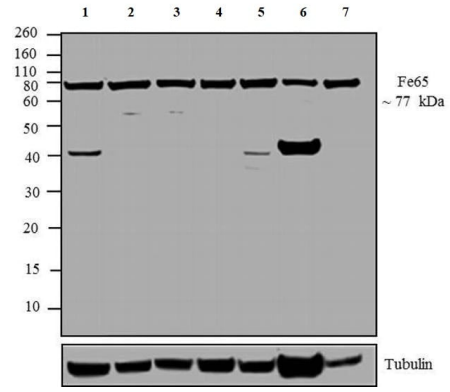
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|---|---|---|
| **ICC/IF** | | Use a concentration of 2 µg/ml. |
| **WB** | | Use a concentration of 0.2 µg/ml. Detects a band of approximately 97 kDa. |

## 靶标

| | |
|---|---|
| **功能** | Transcription coregulator that can have both coactivator and corepressor functions. Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis. May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Required for histone H4 acetylation at double-strand breaks (DSBs). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its trancription activation activity. Function in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s). |
| **组织特异性** | Highly expressed in brain; strongly reduced in post-mortem elderly subjects with Alzheimer disease. |
| **序列相似性** | Contains 2 PID domains.<br>Contains 1 WW domain. |
| **翻译后修饰** | Phosphorylated following nuclear translocation. Phosphorylation at Tyr-546 enhances the transcription activation activity and reduces the affinity with RASD1/DEXRAS1. |
| **细胞定位** | Cell membrane. Cytoplasm. Nucleus. Cell projection > growth cone. Colocalizes with TSHZ3 in axonal growth cone (By similarity). In normal conditions, it mainly localizes to the cytoplasm, while a small fraction is tethered to the cell membrane via its interaction with APP. Following exposure to DNA damaging agents, it is released from cell membrane and translocates to the nucleus. Nuclear translocation is under the regulation of APP. Colocalizes with TSHZ3 in the nucleus. |

## 图片




Western blot - Anti-FE65 antibody (ab5668)

**All lanes :** Anti-FE65 antibody (ab5668) at 2 µg/ml

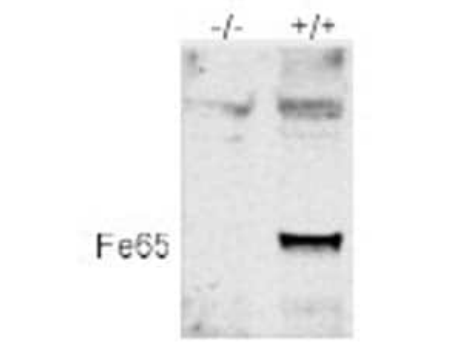
**Lane 1 :** U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate with blocking with 5 % skimmed milk
**Lane 2 :** SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate with blocking with 5 % skimmed milk
**Lane 3 :** NTERA-2 (Human malignant pluripotent embryonic carcinoma cell line) whole cell lysate with blocking with 5 % skimmed milk
**Lane 4 :** U-2 OS (Human bone osteosarcoma epithelial cell line) whole cell lysate with blocking with 5 % skimmed milk
**Lane 5 :** A549 (Human lung carcinoma cell line) whole cell lysate with blocking with 5 % skimmed milk
**Lane 6 :** Mouse Brain with blocking with 5 % skimmed milk
**Lane 7 :** PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate with blocking with 5 % skimmed milk

Lysates/proteins at 30 µg per lane.

**Secondary**
**All lanes :** HRP conjugated Goat anti-Rabbit IgG at 1/2500 dilution

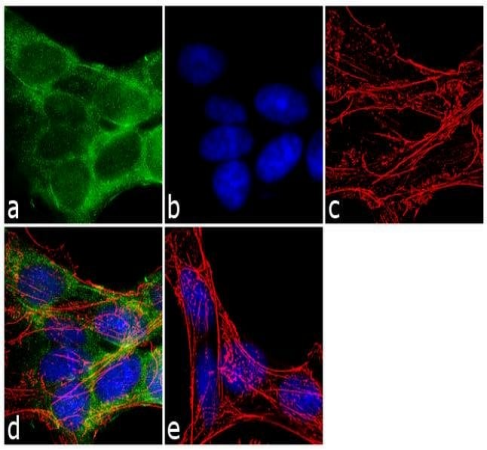
**Additional bands at:** ~77 kDa. We are unsure as to the identity of these extra bands.

Detection: chemiluminescence




Western blot - Anti-FE65 antibody (ab5668)

Western blot of Fe65-affinity pulldown materials from mouse brain lysate using ab5668. Lane 1 is an immunopurified sample from a full-length Fe65 Knockout mouse. Lane 2 is an immunopurified sample from an Fe65 wild type mouse.




Immunocytochemistry/ Immunofluorescence - Anti-FE65 antibody (ab5668)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton™ X-100 permeabilized, 70% confluent log phase SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells, blocked with 1% BSA for 1 hour at room temperature. Labelling Fe65 with ab5668 at 2 µg/mL and incubated for 3 hours at room temperature and then labelled with Goat anti-Rabbit IgG secondary antibody, Alexa Fluor® 488 conjugate at a dilution of 1/2000 for 45 minutes at room temperature (Green). Nuclei were stained with SlowFade® Gold Antifade Mountant with DAPI (Blue). F-actin was stained with Alexa Fluor® 555 Rhodamine Phalloidin at a dilution of 1/300 (Red). Panel e shows the no primary antibody control. The images were captured at 60X magnification.



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