


Alexa Fluor® 647 Anti-ERG antibody [EPR3864] ab196149

リコンビナント **RabMAb**

★★★★☆ **3 Abreviews** **16 References** 画像数 5

製品の概要

製品名	Alexa Fluor® 647 Anti-ERG antibody [EPR3864]
製品の詳細	Alexa Fluor® 647 Rabbit monoclonal [EPR3864] to ERG
由来種	Rabbit
標識	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
アプリケーション	適用あり: ICC/IF
種交差性	<p>交差種: Human</p> <p>交差が予測される動物種: Mouse, Rat </p>
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	ICC/IF: THP-1 cells
特記事項	<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> <p>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.</p>

製品の特性

製品の状態

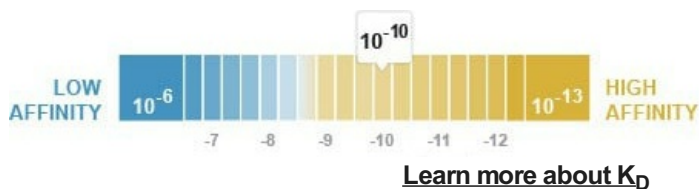
Liquid

保存方法

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.

解離定数 (K_D 値)

$K_D = 8.90 \times 10^{-10}$ M



バッファー

pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS

精製度

Protein A purified

ポリ/モノ

モノクローナル

クローン名

EPR3864

アイソタイプ

IgG

アプリケーション

The Abpromise guarantee

Abpromise保証は、 次のテスト済みアプリケーションにおけるab196149の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/100. This product gave a positive signal in THP-1 cells fixed with 4% formaldehyde (10 min)

ターゲット情報

機能

Transcriptional regulator. May participate in transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure.

関連疾患

Defects in ERG are a cause of Ewing sarcoma (ES) [MIM:612219]. A highly malignant, metastatic, primitive small round cell tumor of bone and soft tissue that affects children and adolescents. It belongs to the Ewing sarcoma family of tumors, a group of morphologically heterogeneous neoplasms that share the same cytogenetic features. They are considered neural tumors derived from cells of the neural crest. Ewing sarcoma represents the less differentiated form of the tumors. Note=A chromosomal aberration involving ERG is found in patients with Erwing sarcoma. Translocation t(21;22)(q22;q12) with EWSR1.
Note=Chromosomal aberrations involving ERG have been found in acute myeloid leukemia (AML). Translocation t(16;21)(p11;q22) with FUS. Translocation t(X;21)(q25-26;q22) with ELF4.

配列類似性

Belongs to the ETS family.

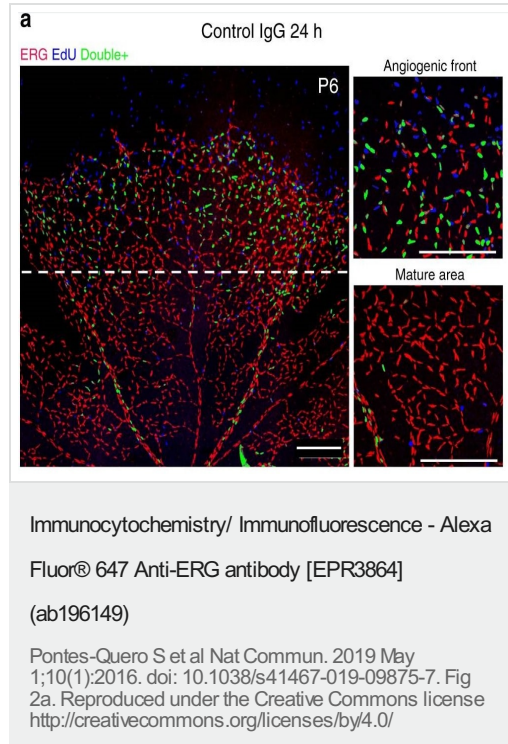
Contains 1 ETS DNA-binding domain.

Contains 1 PNT (pointed) domain.

細胞内局在

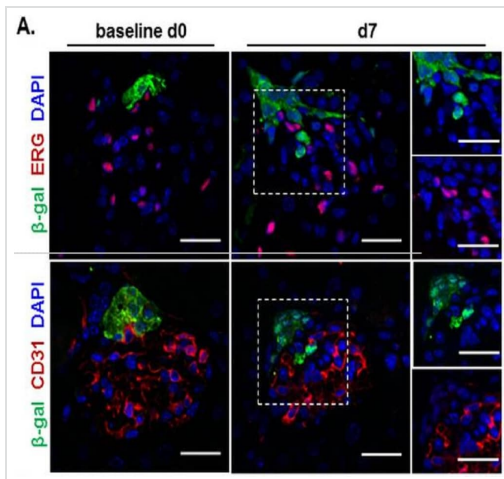
Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

画像



For mouse retina immunostaining, eyes were collected at the indicated time points and fixed in 4% PFA in PBS for 1 h at room temperature (RT). After two PBS washes, retinas were micro-dissected and stained. Briefly, retinas were blocked and permeabilized with 0.3% Triton X-100, 3% fetal bovine serum (FBS) and 3% donkey serum in PBS. Samples were then washed twice in PBLEC buffer (1 mM CaCl₂, 1 mM MgCl₂, 1 mM MnCl₂ and 1% Triton X-100 in PBS). Biotinylated isolectinB4 or primary antibodies (**Panel a, ab196149 1/100 dilution**) were diluted in PBLEC buffer and tissues were incubated in this solution for 2 h at RT or overnight at 4 °C. After five washes in blocking solution diluted 1:2, samples were incubated for 1 h at RT with Alexa-conjugated secondary antibody. After two washes in PBS, retinas were mounted with Fluoromount-G. To detect EdU-labeled DNA, an additional step was performed before mounting using the Click-It EdU kit.

Dll4/Notch signalling inhibition induces context-dependent proliferative effects. a–d Confocal micrographs of the postnatal retinal vasculature from animals treated at P5 with IgG (control) or anti-Dll4 for 24 h (a, b) or 48 h (c, d). Anti-Erg (red) labels EC nuclei. EdU labels the nuclei of all cells in S-phase in the previous 4 h. Blue nuclei mark non-endothelial cells in S-phase, and double-positive (Erg+/EdU+) cell nuclei are pseudocoloured green to better highlight ECs in S-phase. Scale bars, 200 µm.



Immunocytochemistry/ Immunofluorescence - Alexa
Fluor® 647 Anti-ERG antibody [EPR3864]
(ab196149)

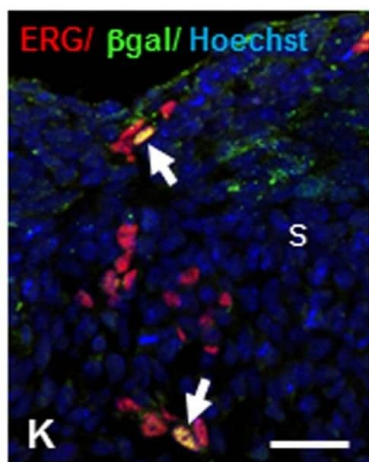
Ruhnke L et al PLoS One. 2018 May
17;13(5):e0196752. doi:
10.1371/journal.pone.0196752. eCollection 2018. Fig
3a. Reproduced under the Creative Commons license
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RLCs selectively differentiate to intraglomerular mesangial cells during EC model.

Panel A shown only. Representative confocal microscopy images for day 0 and day 7 of β -gal and the EC markers ERG (upper panels) or CD31 (lower panels) co-stained kidney slices.

Immunostainings and Acid fuchsin orange G (AFOG) staining were performed on paraffin-embedded 4- μ m kidney sections. Antibodies were diluted in 1% BSA/TBS. Primary antibodies were incubated overnight at 4°C, secondary antibodies and Avidin D-conjugated horseradish peroxidase were incubated for 2 hours at room temperature. All immunofluorescence samples were counterstained with the nuclear marker 4',6-diamidino-2-phenylindole (DAPI) and mounted with mowiol mounting medium. Endogenous peroxidase activity was suppressed with 3% hydrogen peroxide solution.

Samples were counterstained with hematoxylin, dehydrated and mounted. The following antibodies were used: WT-1 ([ab202639](#)), nephrin, PDGFR β ([ab91066](#)), α 8-integrin, CD31, ERG (ab196149), β -galactosidase ([ab9361](#)), renin, CD45 ([ab64100](#)).



Immunocytochemistry/ Immunofluorescence - Alexa
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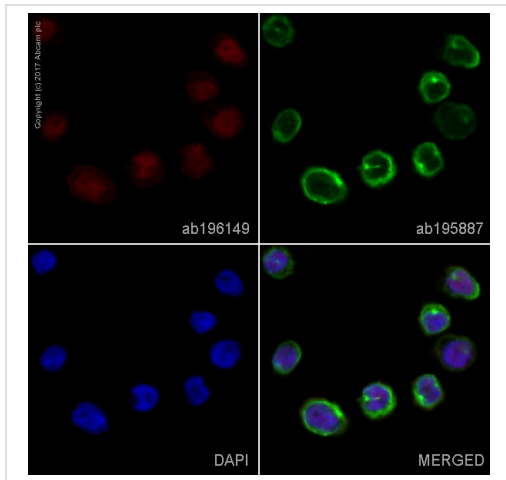
Blanco MJ et al PLoS One. 2017 Sep
19;12(9):e0184767. doi:
10.1371/journal.pone.0184767. eCollection 2017. Fig
1k. Reproduced under the Creative Commons license
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Mt4-mmp expression during early mouse embryonic development.

Panel K shown only: Double-labeled cells for the endothelial markers ERG (red, arrows in K) and β -gal (green) demonstrate that cells expressing Mt4-mmp in this location are endothelial cells. Abbreviations: da, dorsal aorta; fp, floor plate; s, somite; NCC, neural crest cells; NT, neural tube. Scale bars: 30 μ m (J-L).

For immunohistochemical procedures, embryos were fixed in 4% PFA in PBS 0.1M pH 7.2 by immersion or perfusion depending on the developmental stage, cryoprotected in a 30% sucrose solution, and then embedded in OCT and sectioned in the cryostat at 20 μ m thickness in the transverse plane. Immunohistochemistry was performed following standard protocols. Primary antibodies used include: polyclonal anti-CD31 hamster (1/1000), anti- β -galactosidase rabbit (1/1000; [ab4761](#), Abcam), anti-FoxA2 mouse (1/250), anti-Nkx6.1 mouse (1/1000), anti-Olig2 rabbit (1/1000), anti-ERG-647 rabbit (1/500; ab196149, Abcam) and anti-WT-1 mouse (Wilms Tumor-1; 1/50;). Sections were incubated with the primary antibody diluted in PBS containing 0.1% Triton X-100 and 1% bovine serum albumin (BSA), for 48 h at 4°C. Subsequently, the sections were rinsed in PBS and incubated for 2 hours at room temperature with 488 or 594-Alexa™-conjugated fluorescent antibodies (1/1000). Sections were counterstained with Hoechst

(1:1000) for 5 min at room temperature to visualize nuclei.

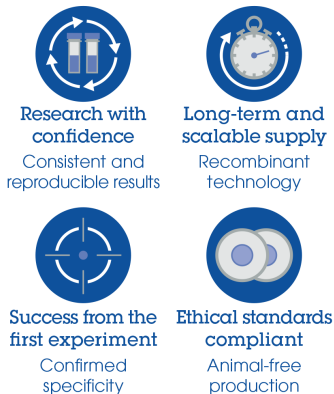


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-ERG antibody [EPR3864] (ab196149)

ab196149 staining ERG in THP-1 cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab196149 at 1/100 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Why choose a recombinant antibody?



Alexa Fluor® 647 Anti-ERG antibody [EPR3864] (ab196149)

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