

Anti-OPA1 antibody [1E81D9] ab119685

★★★★★ [1 Abreviews](#) [9 References](#) [画像数 2](#)

製品の概要

製品名	Anti-OPA1 antibody [1E81D9]
製品の詳細	Mouse monoclonal [1E81D9] to OPA1
由来種	Mouse
アプリケーション	適用あり: WB, Flow Cyt 適用なし: ELISA or IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is considered to be commercially sensitive.
特記事項	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>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.</p> <p>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</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: 99% HEPES buffered saline
精製度	Ammonium Sulphate Precipitation
特記事項 (精製)	Purity is near homogeneity as judged by SDS-PAGE. ab119685 was produced in vitro using hybridomas grown in serum-free medium, and then concentrated by ammonium sulfate precipitation.
ポリ/モノ	モノクローナル

クローン名	1E81D9
アイソタイプ	IgG1
軽鎖の種類	kappa

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ab119685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。

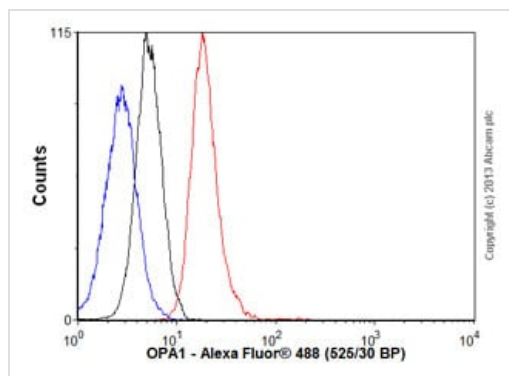
アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Predicted molecular weight: 112 kDa.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

追加情報 Is unsuitable for ELISA or IP.

ターゲット情報

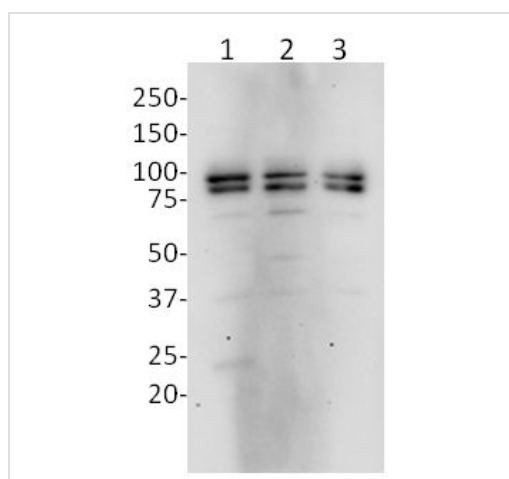
機能	Dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space.
組織特異性	Highly expressed in retina. Also expressed in brain, testis, heart and skeletal muscle. Isoform 1 expressed in retina, skeletal muscle, heart, lung, ovary, colon, thyroid gland, leukocytes and fetal brain. Isoform 2 expressed in colon, liver, kidney, thyroid gland and leukocytes. Low levels of all isoforms expressed in a variety of tissues.
関連疾患	Defects in OPA1 are a cause of optic atrophy type 1 (OPA1) [MIM:165500]. OPA1 is a dominantly inherited optic neuropathy occurring in 1 in 50,000 individuals that features progressive loss in visual acuity leading, in many cases, to legal blindness. Defects in OPA1 are the cause of optic atrophy 1 with deafness (OPA1D) [MIM:125250]. Some individuals with mutations in OPA1 manifest also ophthalmoplegia and myopathy.
配列類似性	Belongs to the dynamin family.
翻訳後修飾	PARL-dependent proteolytic processing releases an antiapoptotic soluble form not required for mitochondrial fusion.
細胞内局在	Mitochondrion inner membrane. Mitochondrion intermembrane space.

画像



Flow Cytometry - Anti-OPA1 antibody [1E81D9]
(ab119685)

Overlay histogram showing SH-SY5Y cells stained with ab119685 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab119685, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) ([ab150113](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Western blot - Anti-OPA1 antibody [1E81D9]
(ab119685)

All lanes : Anti-OPA1 antibody [1E81D9] (ab119685) at 1 µg/ml

Lane 1 : whole cell lysates from HeLa cells(human)

Lane 2 : whole cell lysates from H4IIE cells(rat)

Lane 3 : whole cell lysates from MEF cells(mouse)

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP goat anti-mouse at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 112 kDa

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