abcam

Product datasheet

Anti-OPA1 antibody ab90857

8 References　画像数 1

製品の概要

製品名	Anti-OPA1 antibody
製品の詳細	Rabbit polyclonal to OPA1
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Chicken, Human
免疫原	Synthetic peptide from within internal sequence amino acids 500-600 of Human OPA1 (UniProt ID: O60313).
ポジティブ・コントロール	IHC: Prostatic smooth muscle and glandular epithelium WB: Post nuclear extracts of mouse embryonic fibroblasts IF/ICC: HCT116 cell line.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.05% Sodium Azide Constituents: PBS
精製度	Protein A purified
ポリ/モノ	**ポリクローナル**
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab90857** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 2 µg/ml. Predicted molecular weight: 112 kDa.

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.

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.

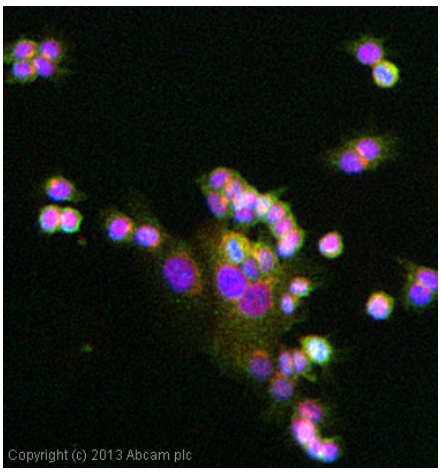
関連疾患
Defects in OPA1 are a cause of optic atrophy type 1 (OPA1) [MIM:165500]. OPA1 is a dominantly inherited optic neuropathy occurring in 1 in 50,000 individuals that features progressive loss in visual acuity leading, in many cases, to legal blindness.
Defects in OPA1 are the cause of optic atrophy 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



Immunocytochemistry/ Immunofluorescence - Anti-OPA1 antibody (ab90857)

ICC/IF image of ab90857 stained HCT116 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 (ab90857, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 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

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