abcam

Product datasheet

Anti-Grp75/MOT antibody [JG1] ab2799

★★★★★ 14 Abreviews 51 References 10 图像

概述

产品名称	Anti-Grp75/MOT抗体[JG1]
描述	**小鼠单克隆抗体**[JG1] to Grp75/MOT
宿主	Mouse
经测试应用	**适用于:** ICC/IF, IP, IHC-P, Flow Cyt, WB
种属反应性	**与反应:** Mouse, Rat, Guinea pig, Hamster, Dog, Human, Non human primates **预测可用于:** Cow
免疫原	Synthetic peptide corresponding to Mouse Grp75/MOT aa 661-679. Sequence: GSGSSGTGEQKEDQKEEKQ Database link: **P38647** Run BLAST with Run BLAST with
阳性对照	Recombinant Human Grp75/MOT protein (**ab79145**) can be used as a positive control in WB. IHC-P: Human testis tissue. ICC/IF: A549, HMVEC, NS-1, P19, HeLa and human fibroblasts cells.
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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituents: PBS, BSA
纯度	Protein A purified
Primary antibody说明	The HSP 70 family is a set of highly conserved proteins that are induced by a variety of biological

stresses, including heat stress, in every organism in which the proteins have been examined. The human HSP 70 family members include: HSP 70, a 70 kDa protein which is strongly inducible in all organisms but which is also constitutively expressed in primate cells; HSP 72, a 72 kDa protein which is induced exclusively under stress conditions; HSC 70, or cognate protein, is a 72 kDa constitutively expressed protein which is involved in uncoating clathrin-coated vesicles; GRP 78, or BiP, is a glucose-regulated 78 kDa protein localized to the endoplasmic reticulum; and mitochondrial HSP 70 (mtHSP 70, GRP 75 or mortalin) a 75 kDa protein that is found within the mitochondria. mtHSP 70 is a mitochondrial resident protein that is involved in protein translocation into the mitochondria. Preproteins cross the mitochondrial membranes in an extended conformation. This requires unfolding of preproteins before entering translocation pores in the mitochondrial outer membrane. Preprotein unfolding is thought to be mediated by mtHSP 70 and other inner membrane proteins of the mitochondria.

克隆	单克隆
克隆编号	JG1
同种型	IgG3

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab2799于以下的经测试应用**

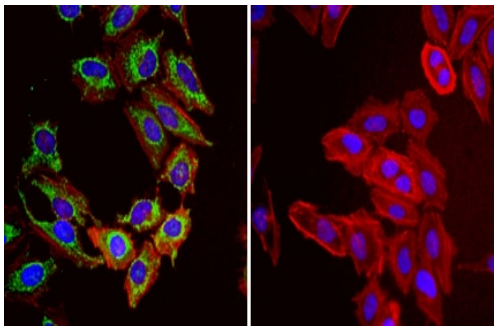
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (3)	1/50 - 1/200. Staining of mtHSP 70 in DAP.3 cells results in a worm-like staining pattern, consistent with mitochondrial localization.
IP		Use at an assay dependent concentration.
IHC-P	★★★★☆ (1)	Use a concentration of 1 µg/ml.
Flow Cyt		1/100. **ab91537** - Mouse monoclonal IgG3, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (10)	Use at an assay dependent concentration.

靶标

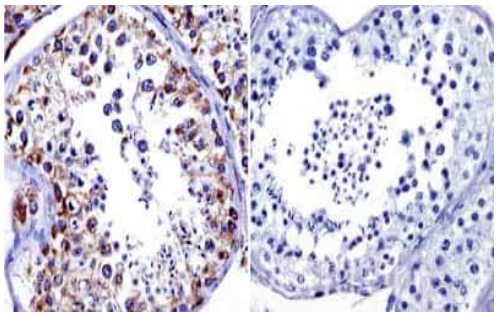
功能	Implicated in the control of cell proliferation and cellular aging. May also act as a chaperone.
序列相似性	Belongs to the heat shock protein 70 family.
翻译后修饰	Phosphorylated upon DNA damage, probably by ATM or ATR.
细胞定位	Mitochondrion.

图片



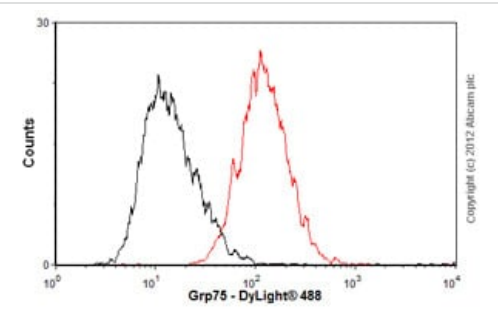
Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Grp75/MOT (green) with ab2799. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% BSA for 15 minutes at room temperature. Cells were incubated with (left panel) or without (right panel) ab2799 (1:50) for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat-anti-mouse IgG secondary antibody (1:400) for 30 minutes at room temperature. F-Actin (red) was stained with Dylight 554 phalloidin, and nuclei (blue) were stained with Hoechst 33342 dye. Images were taken at 20X magnification.



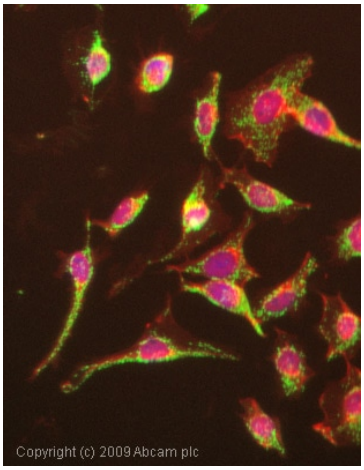
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunohistochemistry was performed on normal biopsies of deparaffinized human testis tissue. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer and microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:100 with a Mouse Monoclonal Antibody recognizing Grp75/MOT (ab2799) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



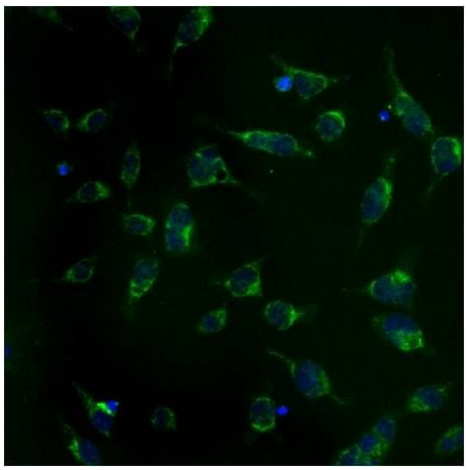
Flow Cytometry - Anti-Grp75/MOT antibody [JG1] (ab2799)

Overlay histogram showing HepG2 cells stained with ab2799 (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 (ab2799, 1/100 dilution) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG3 [MG3-35] (**ab18394**, 1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



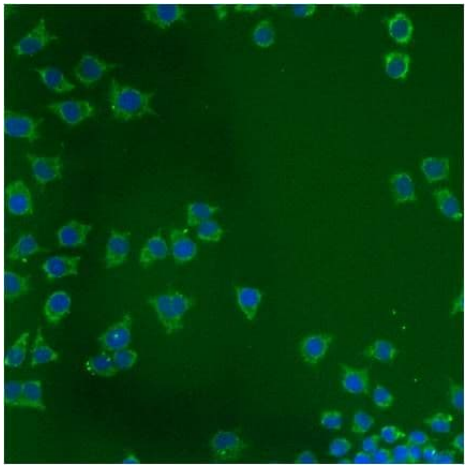
Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

ICC/IF image of ab2799 stained HeLa cells. The cells were 4% PFA 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 (ab2799, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 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.



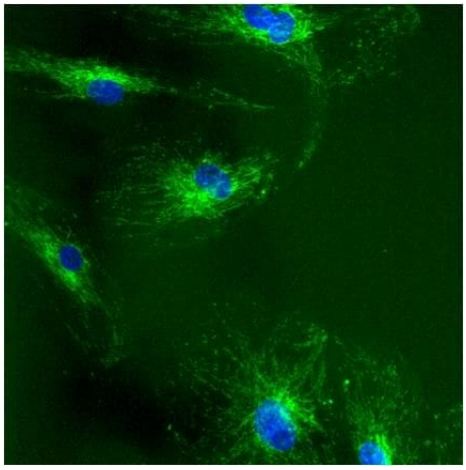
Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunocytochemistry/ Immunofluorescence of P19 (Mouse embryonal carcinoma cell line) cells using ab2799.



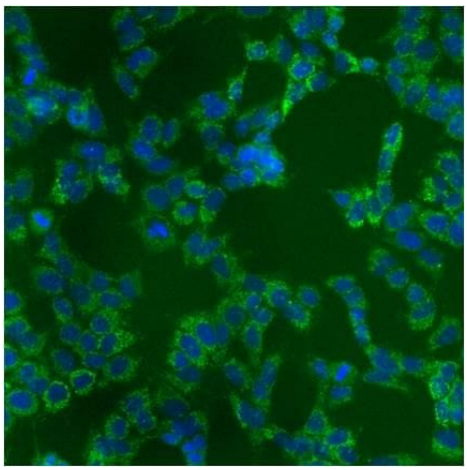
Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunocytochemistry/ Immunofluorescence of NS-1 (Mouse myeloma cell line) cells using ab2799.



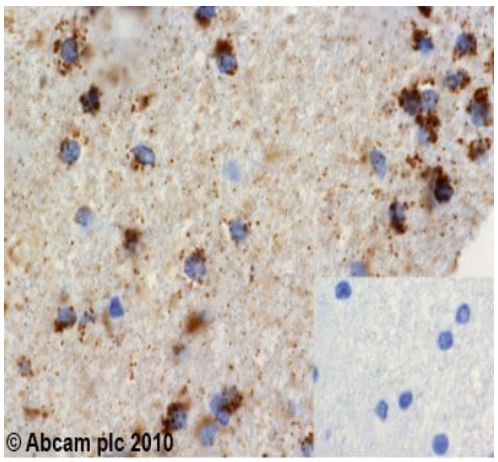
Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunocytochemistry/ Immunofluorescence of HMVEC (Human microvascular endothelial cell line) cells using ab2799.



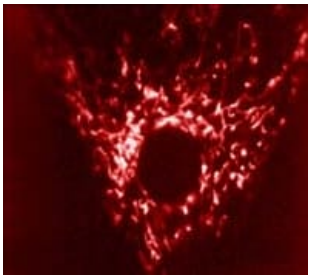
Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunocytochemistry/ Immunofluorescence of A549 (Human lung carcinoma cell line) cells using ab2799.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Grp75/MOT antibody [JG1] (ab2799)

ab2799 (1µg/ml) staining GrP75/MOT in human frontal cerebral cortex using an automated system (DAKO Autostainer Plus). Using this protocol there is strong mitochondrial staining.
Insert depicts negative control (no primary antibody).
Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-Grp75/MOT antibody [JG1] (ab2799)

Immunocytochemistry/Immunofluorescence analysis of human fibroblasts labelling Grp75/MOT with ab2799.

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