

Product datasheet

Anti-Myoferlin antibody ab224091

4 Images

Overview

Product name	Anti-Myoferlin antibody
Description	Rabbit polyclonal to Myoferlin
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human Myoferlin aa 117-220. Sequence: TIDLVIGYDPPSAPHPNDLSGSPVPGMGGDGEEDEGD EDRLDNAVRGPGP KGPVGTVSEAQLARRLTKVKNSRRMLSINKPQDFQIRV RVIEGRQLSGNNI RPVV Database link: Q9NZM1 Run BLAST with Run BLAST with
Positive control	WB: A431 and NIH/3T3 cell lysates. IHC-P: Human uterine cervix tissue. ICC/IF: U-251 MG cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab224091** in the following tested applications.

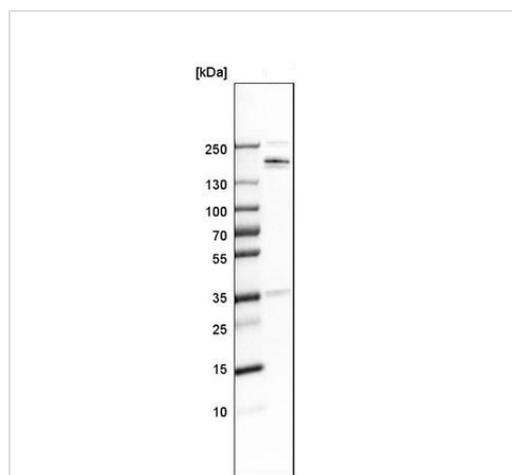
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/100 - 1/250. Predicted molecular weight: 17,230,233,235 kDa.
ICC/IF		Use a concentration of 1 - 4 µg/ml. Fixation/permeabilization: PFA/Triton X-100.

Target

Function	Calcium/phospholipid-binding protein that plays a role in the plasmalemma repair mechanism of endothelial cells that permits rapid resealing of membranes disrupted by mechanical stress. Involved in endocytic recycling. Implicated in VEGF signal transduction by regulating the levels of the receptor KDR.
Tissue specificity	Expressed in myoblast and endothelial cells (at protein level). Highly expressed in cardiac and skeletal muscles. Also present in lung, and at very low levels in kidney, placenta and brain.
Sequence similarities	Belongs to the ferlin family. Contains 5 C2 domains.
Domain	The C2 domain 1 associates with lipid membranes in a calcium-dependent manner.
Cellular localization	Cell membrane. Nucleus membrane. Cytoplasmic vesicle membrane. Concentrated at the membrane sites of both myoblast-myoblast and myoblast-myotube fusions. Detected at the plasmalemma in endothelial cells lining intact blood vessels (By similarity). Found at nuclear and plasma membranes. Enriched in undifferentiated myoblasts near the plasma membrane in punctate structures.

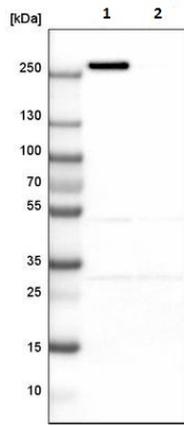
Images



Anti-Myoferlin antibody (ab224091) at 1/100 dilution + A431 (human epidermoid carcinoma cell line) cell lysate

Predicted band size: 17,230,233,235 kDa

Western blot - Anti-Myoferlin antibody (ab224091)



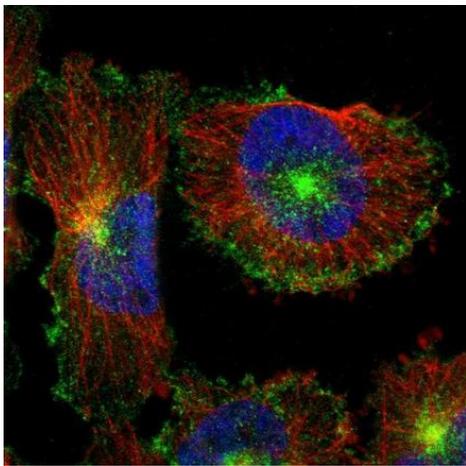
Western blot - Anti-Myoferlin antibody (ab224091)

All lanes : Anti-Myoferlin antibody (ab224091) at 1/100 dilution

Lane 1 : NIH/3T3 (mouse embryonic fibroblast cell line) cell lysate

Lane 2 : NBT-II cell lysate

Predicted band size: 17,230,233,235 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Myoferlin antibody (ab224091)

PFA-fixed, Triton X-100 permeabilized U-251 MG (human brain glioma cell line) cells stained for Myoferlin (green) using ab224091 at 4 µg/ml in ICC/IF.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myoferlin antibody (ab224091)

Paraffin-embedded human uterine cervix tissue stained for Myoferlin using [ab24091](#) at 1/200 dilution in immunohistochemical analysis.

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