abcam

Product datasheet

Anti-NHLRC1/Malin antibody [N85/18] (Biotin) ab186273

Overview

Product name	Anti-NHLRC1/Malin antibody [N85/18] (Biotin)
Description	Mouse monoclonal [N85/18] to NHLRC1/Malin (Biotin)
Host species	Mouse
Conjugation	Biotin
Tested applications	**Suitable for:** WB, ICC
Species reactivity	**Reacts with:** Human
Immunogen	Fusion protein (His-tag) corresponding to Human NHLRC1/Malin aa 2-125 (N terminal). encompassing RING domain Database link: Q6VVB1
Positive control	NHLRC1/Malin transfected COS cell lysate
General notes	The clone number has been updated from S85-18 to N85/18, both clone numbers name the same antibody clone. This product was previously labelled as NHLRC1

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. Store In the Dark.
Storage buffer	pH: 7.20 Preservative: 0.1% Sodium azide Constituents: 49% PBS, 50% Glycerol
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N85/18
Isotype	IgG1

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab186273 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
WB		1/1000. Predicted molecular weight: 42 kDa.
ICC		Use at an assay dependent concentration.

Target

Function E3 ubiquitin-protein ligase. Together with the phosphatase EPM2A/laforin, appears to be involved in the clearance of toxic polyglucosan and protein aggregates via multiple pathways. In complex with EPM2A/laforin and HSP70, suppresses the cellular toxicity of misfolded proteins by promoting their degradation through the ubiquitin-proteasome system (UPS). Ubiquitinates the glycogen-targeting protein phosphatase subunits PPP1R3C/PTG and PPP1R3D in a laforin-dependent manner and targets them for proteasome-dependent degradation, thus decreasing glycogen accumulation. Polyubiquitinates EPM2A/laforin and ubiquitinates AGL and targets them for proteasome-dependent degradation. Also promotes proteasome-independent protein degradation through the macroautophagy pathway.

Tissue specificity Expressed in brain, cerebellum, spinal cord, medulla, heart, liver, skeletal muscle and pancreas.

Pathway Protein modification; protein ubiquitination.

Involvement in disease Epilepsy, progressive myoclonic 2

Sequence similarities Contains 6 NHL repeats.
Contains 1 RING-type zinc finger.

Domain The RING domain is essential for ubiquitin E3 ligase activity.

Cellular localization Endoplasmic reticulum. Nucleus. Localizes at the endoplasmic reticulum and, to a lesser extent, in the nucleus.

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