

**Malin Antibody**  
**Malin Antibody, Clone S85-18**  
**Catalog # ASM10278**

**Specification**

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**Malin Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O6VVB1</a>
Other Accession	<a href="#">NP_940988.2</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Human Malin Monoclonal IgG1

**Target/Specificity**

Detects ~42kDa.

**Other Names**

E3 ubiquitin-protein ligase NHLRC1 Antibody, NHLRC 1 Antibody, NHL repeat containing 1 Antibody, EPM2A Antibody, EPM2B Antibody, MGC119262 Antibody, MGC119264 Antibody, MGC119265 Antibody, NHL repeat containing protein 1 Antibody

**Immunogen**

Fusion protein amino acids 2-125 (N-terminus encompassing RING domain) of human Malin. 86% identical to rat, and 77% identical to mouse.

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-444 was sufficient for detection of malin in 20 µg of transiently (malin) transfected COS cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Endoplasmic Reticulum | Nucleus

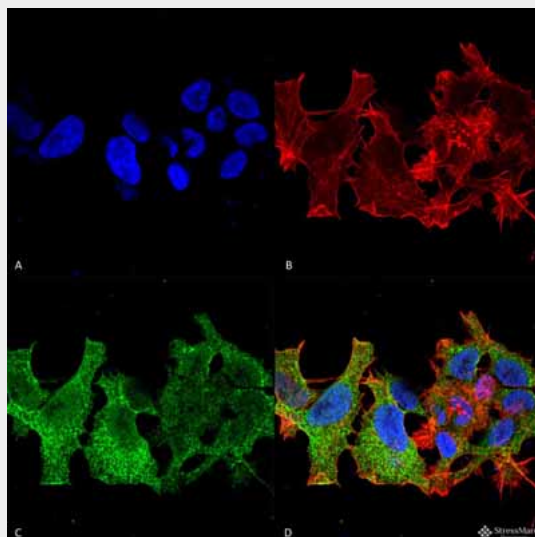
**Malin Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

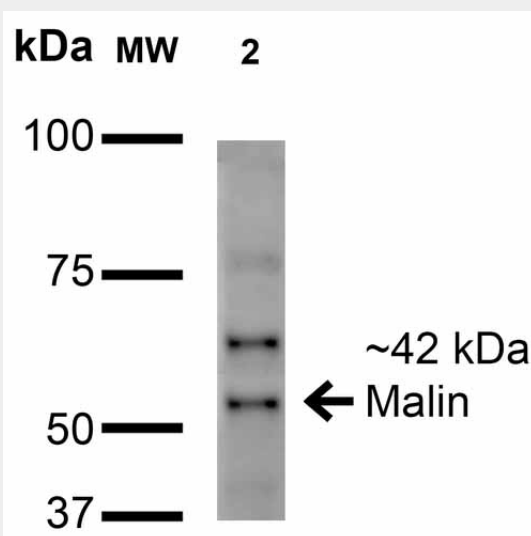
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Malin Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Malin Monoclonal Antibody, Clone S85-18 (ASM10278). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Malin Monoclonal Antibody (ASM10278) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, Endoplasmic Reticulum. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Malin Antibody (D) Composite.



Western Blot analysis of Monkey COS cells transfected with flag-tagged Malin showing detection of ~42 kDa Malin protein using Mouse Anti-Malin Monoclonal Antibody, Clone S85-18 (ASM10278).

Lane 1: Molecular Weight Ladder. Lane 2: Monkey COS cells transfected with flag-tagged Malin. Load: 15 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Malin Monoclonal Antibody (ASM10278) at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~42 kDa.

### **Malin Antibody - Background**

Progressive myoclonic epilepsy type 2 (EPM2), also called Lafora disease, is an autosomal recessive disease characterized by grand mal seizures and/or myoclonus at about 15 years of age. Rapid and severe mental deterioration follows, often with psychotic features. Survival is less than 10 years after onset. Starch-like, endoplasmic reticulum-associated polyglucosans, called Lafora bodies, can be observed in brain, muscle, liver and heart. One cause of Lafora disease is due to mutations in NHLRC1, the gene encoding Malin. Forty-nine different mutations in NHLRC1 have been shown to cause EPM2. Malin, also called NHL repeat-containing protein 1, is a single subunit E3 ubiquitin ligase, containing 6 NHL repeats and 1 RING-type zinc finger. Malin's RING domain is responsible for its ability to mediate ubiquitination. Malin interacts with and polyubiquitinates Laforin, a protein also implicated in EPM2. Malin localizes to the endoplasmic reticulum and, to a lesser extent, in the nucleus. Malin is expressed in brain, cerebellum, spinal cord, medulla, heart, liver, skeletal muscle and pancreas.

### **Malin Antibody - References**

1. Chan E.M, et al. (2003) Nat. Genet. 35:125-127.
2. Worby C.A, et al. (2008) J. Biol. Chem. 283:4069-4076.
3. Gomez-Abad C, et al. (2005) Neurology. 64:982-986.