

**Laforin Antibody**  
**Laforin Antibody, Clone S84-37**  
**Catalog # ASM10298****Specification**

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**Laforin Antibody - Product Information**

|                   |                                |
|-------------------|--------------------------------|
| Application       | WB, ICC                        |
| Primary Accession | <a href="#">O95278</a>         |
| Other Accession   | <a href="#">NP_001018051.1</a> |
| Host              | Mouse                          |
| Isotype           | IgG1                           |
| Reactivity        | Human                          |
| Clonality         | Monoclonal                     |

**Description**

Mouse Anti-Human Laforin Monoclonal IgG1

**Target/Specificity**

Detects ~40kDa.

**Other Names**

EPM2 Antibody, Epilepsy progressive myoclonus type 2 Lafora disease (laforin) Antibody, Epilepsy progressive myoclonus type 2A Lafora disease (laforin) Antibody, EPM2 Antibody, Epm2a Antibody, Lafora PTPase Antibody, LAFPTPase Antibody, LD Antibody, LDE Antibody, MELF Antibody

**Immunogen**

Fusion protein amino acids 1-331 (full-length) of human Laforin. Rat: 90% identity (296/327 amino acids identical). Mouse: 89% identity (295/327 amino acids identical)

**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-466 was sufficient for detection of Laforin in 20 µg of human brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Endoplasmic Reticulum

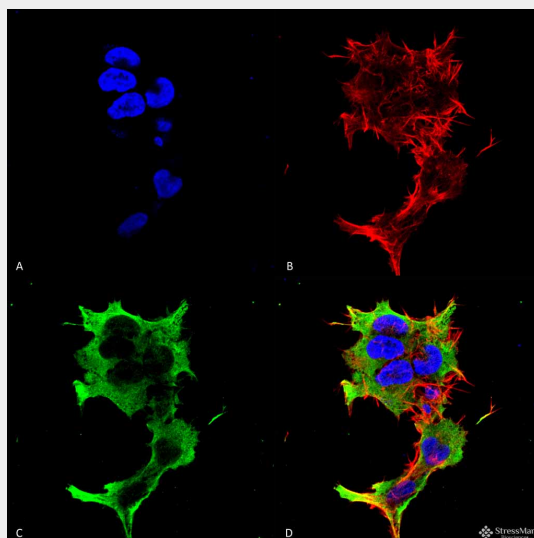
**Laforin Antibody - Protocols**

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

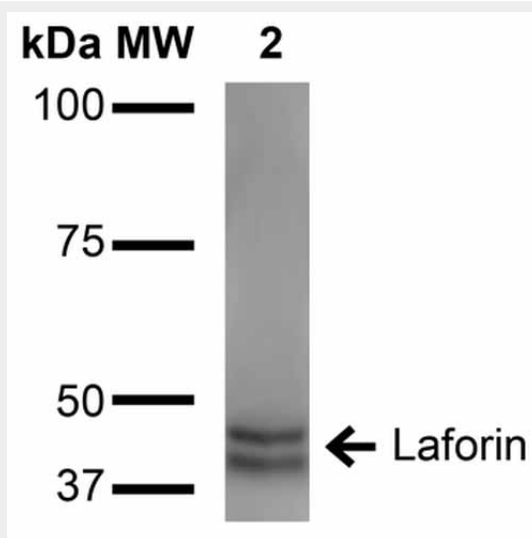
- [Western Blot](#)
- [Blocking Peptides](#)

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

## Laforin Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Laforin Monoclonal Antibody, Clone S84-37 (ASM10298). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Laforin Monoclonal Antibody (ASM10298) 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 60 min RT, 5 min RT. Localization: Endoplasmic Reticulum. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Laforin Antibody (D) Composite.



Western Blot analysis of Human Hippocampus showing detection of ~40 kDa and 45 kDa Laforin protein using Mouse Anti-Laforin Monoclonal Antibody, Clone S84-37 (ASM10298). Lane 1: Molecular Weight (MW) Ladder. Lane 2: Human Hippocampus. Load: 15 µg. Block: 2% BSA and 2%

Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Laforin Monoclonal Antibody (ASM10298) at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~40 kDa and 45 kDa.

### **Laforin Antibody - Background**

Laforin, also known as Lafora PTPase, is a dual specificity protein phosphatase. Laforin is involved in the control of glycogen metabolism, specifically in preventing the formation of poorly branched glycogen molecules (polyglucosans). Laforin forms a complex with NHLRC1/malin and HSP70 that suppresses the cellular toxicity of misfolded proteins by promoting their degradation through the ubiquitin-proteasome system (UPS). Laforin is expressed in heart, skeletal muscle, kidney, pancreas and brain. Defective Laforin is linked to progressive myoclonic epilepsy type 2 (EPM2).