

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB08570 - Goat Anti-Laforin (isoform a) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** epilepsy, progressive myoclonus type 2, Lafora disease (laforin), laforin, EPM2A, epilepsy, progressive myoclonus type 2A, Lafora disease (laforin), EPM2, MELF, glucan phosphatase, lafora PTPase, LAFPTPase

**Official Symbol:** EPM2A

**Accession Number(s):** NP\_005661.1; NP\_001018051.1; NP\_001346986.1; NP\_001355059.1

**Human GeneID(s):** [7957](#)

**Non-Human GeneID(s):** 13853 (mouse), 680683 (rat)

**Important Comments:** This antibody is expected to recognize all reported isoforms listed.

### Immunogen

Peptide with sequence C-EATGHTNEMKHTTD, from the internal region of the protein sequence according to NP\_005661.1; NP\_001018051.1; NP\_001346986.1; NP\_001355059.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:16000.

**Western blot:** Approx. 38-40kDa band observed in Human Cerebellum, Heart and Skeletal Muscle lysates and in Mouse and Rat Brain lysates (calculated MW of 37.2kDa according to Human NP\_005661.1, 37.0kDa according to Mouse NP\_034276.2 and 37.1kDa according to Rat NP\_001263691.1). Recommended concentration: 0.03-0.5µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** Paraffin embedded Human Cerebellum and Heart. Recommended concentration: 2.5µg/ml.

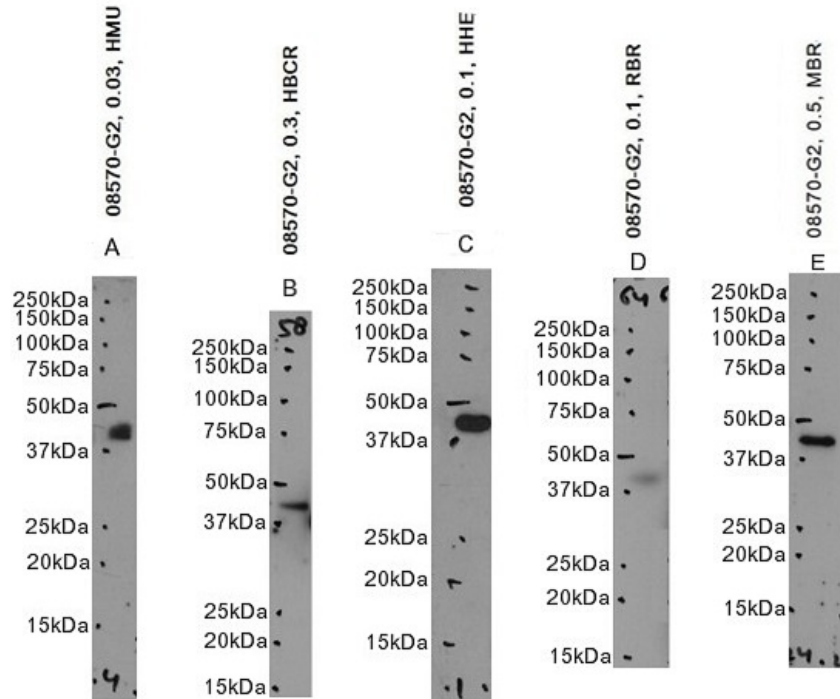
**Immunofluorescence:** Strong expression of the protein seen in HeLa cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

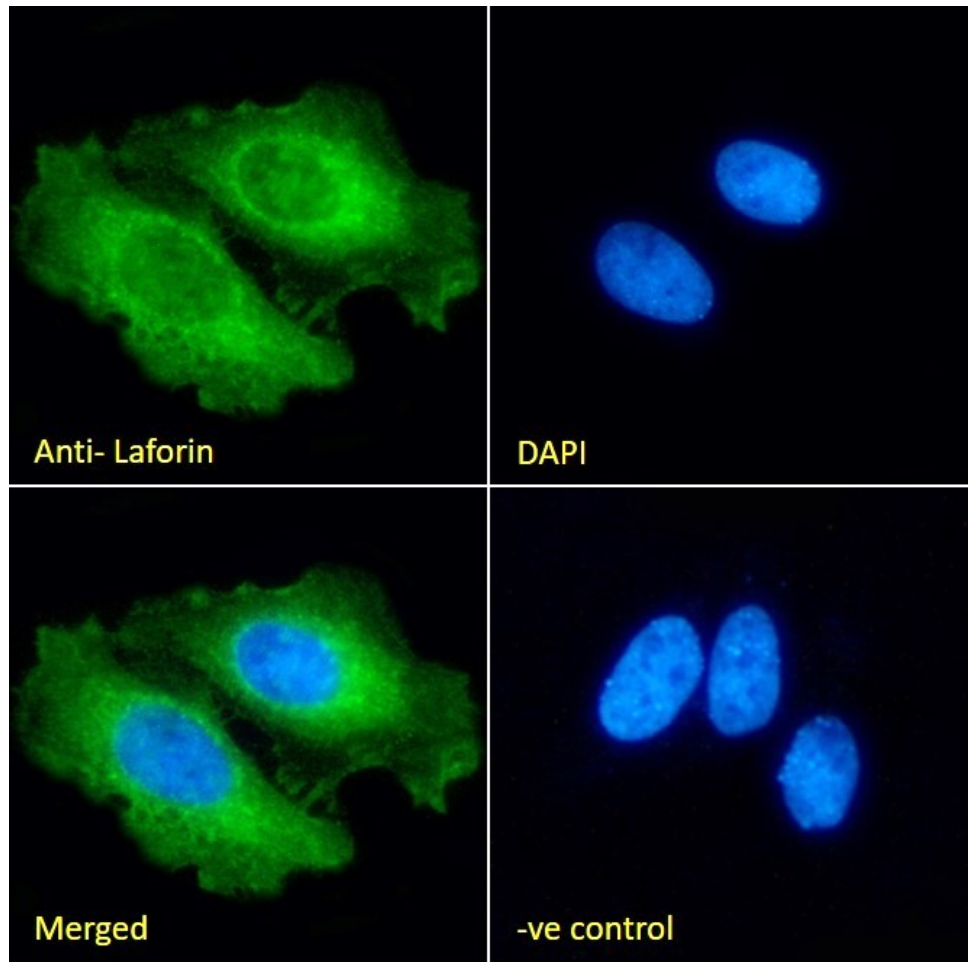
### Species Reactivity

**Tested:** Human, Mouse, Rat

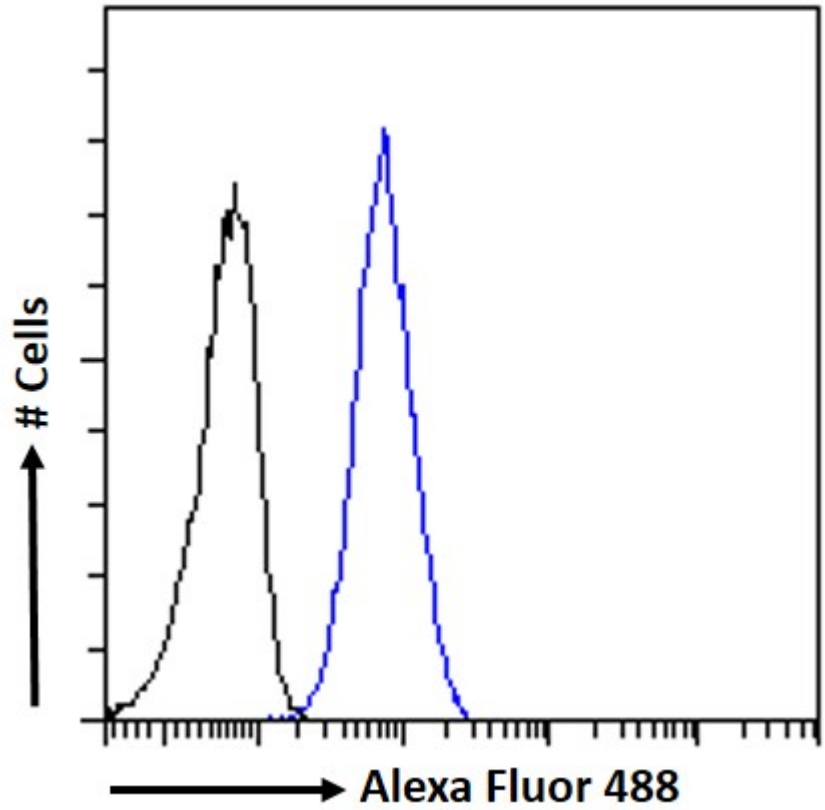
**Expected from sequence similarity:** Human, Mouse, Rat, Cow



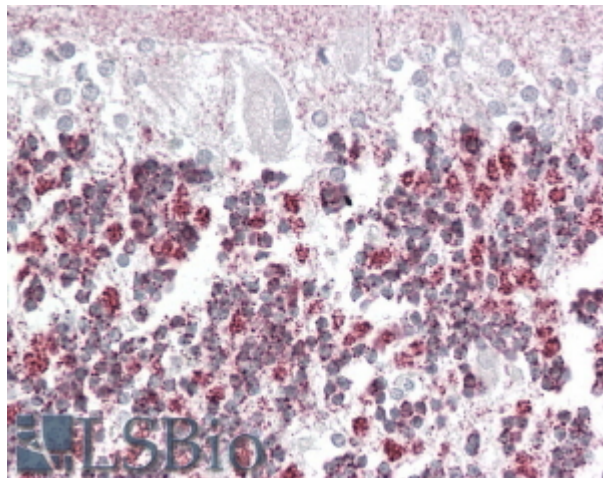
EB08570 optimised QC. Primary incubation 1 hour at room temperature.  
 Image A: Human Skeletal Muscle lysate at primary Ab concentration 0.03ug/ml. Image B:  
 Human Cerebellum lysate at primary Ab concentration 0.3ug/ml. Images C, D: Human  
 Heart and Rat Brain lysate at primary Ab concentration 0.1ug/ml, Image E: Mouse Brain  
 lysate at primary Ab concentration 0.5ug/ml (Loaded 35µg protein in RIPA buffer, per  
 lane). Detected by chemiluminescence.



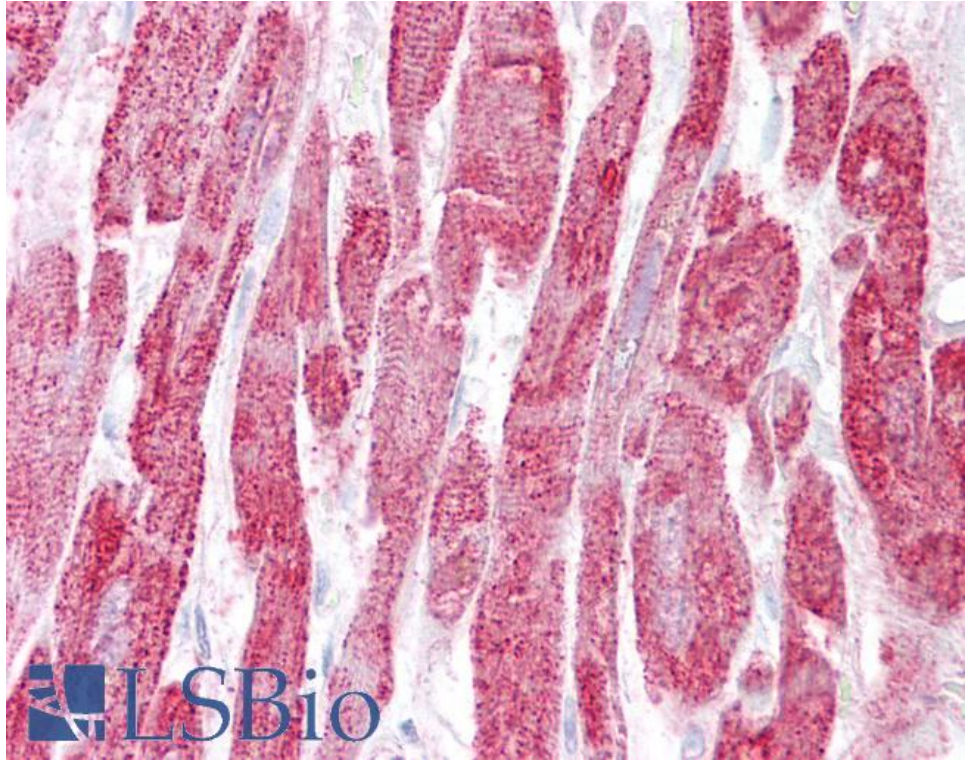
EB08570 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear, cytoplasmic and ER staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB08570 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB08570 (2.5µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB08570 (2.5µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.