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EB12387 - Goat Anti-calreticulin Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: CALR, calreticulin, CRT, RO, SSA, cC1qR, CRP55, ERp60, HACBP, Sicca syndrome antigen A (autoantigen Ro, calreticulin), calregulin, endoplasmic reticulum resident protein 60, grp60
Official Symbol: CALR
Accession Number(s): NP_004334.1
Human GeneID(s): 811
Non-Human GeneID(s): 12317 (mouse), 64202 (rat)

Immunogen

Peptide with sequence C-HPEIDNPEYSPDPS, from the internal region of the protein sequence according to NP_004334.1.

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 1:128000.
Western blot: Approx. 55-60kDa band observed in lysates of cell line HeLa, and approx. 60kDa in lysates of cell lines HEK293 and MCF7, and in Human Lung lysates (calculated MW of 48.1kDa according to NP_004334.1). These molecular weights are observed by other commercial sources. Recommended concentration: 0.01-0.5µg/ml. Primary incubation 1 hour at room temperature.

Additional validation: This antibody has been successfully used in the following papers: Sikorski K. et al. (2018), PMID: 30377371; Costa. C. F. et al. (2023), PMID: 37371965.

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

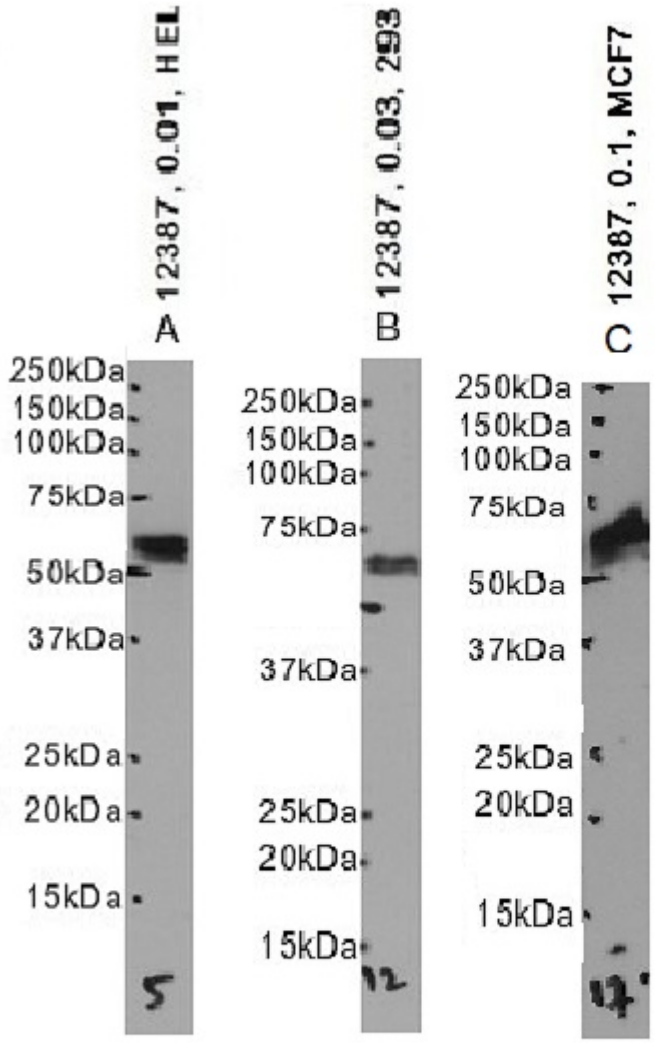
Tested: Human
Expected from sequence similarity: Human

Specific References

This antibody has been successfully used in WB on Human:
Cláudio F Costa, Celien Lismont, Serhii Chornyi, Hongli Li, Mohamed A F Hussein, Hans R Waterham, Marc Fransen
Functional Analysis of GSTK1 in Peroxisomal Redox Homeostasis in HEK-293 Cells. Antioxidants (Basel). 2023 Jun 7;12(6):1236.
PMID: 37371965

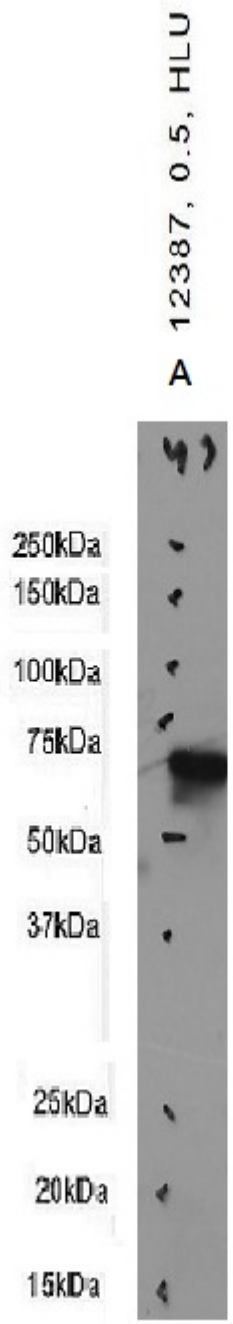
This antibody has been successfully used in the following paper:

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen
A high-throughput pipeline for validation of antibodies
Nat Methods. 2018 Nov;15(11):909-912
PMID: 30377371



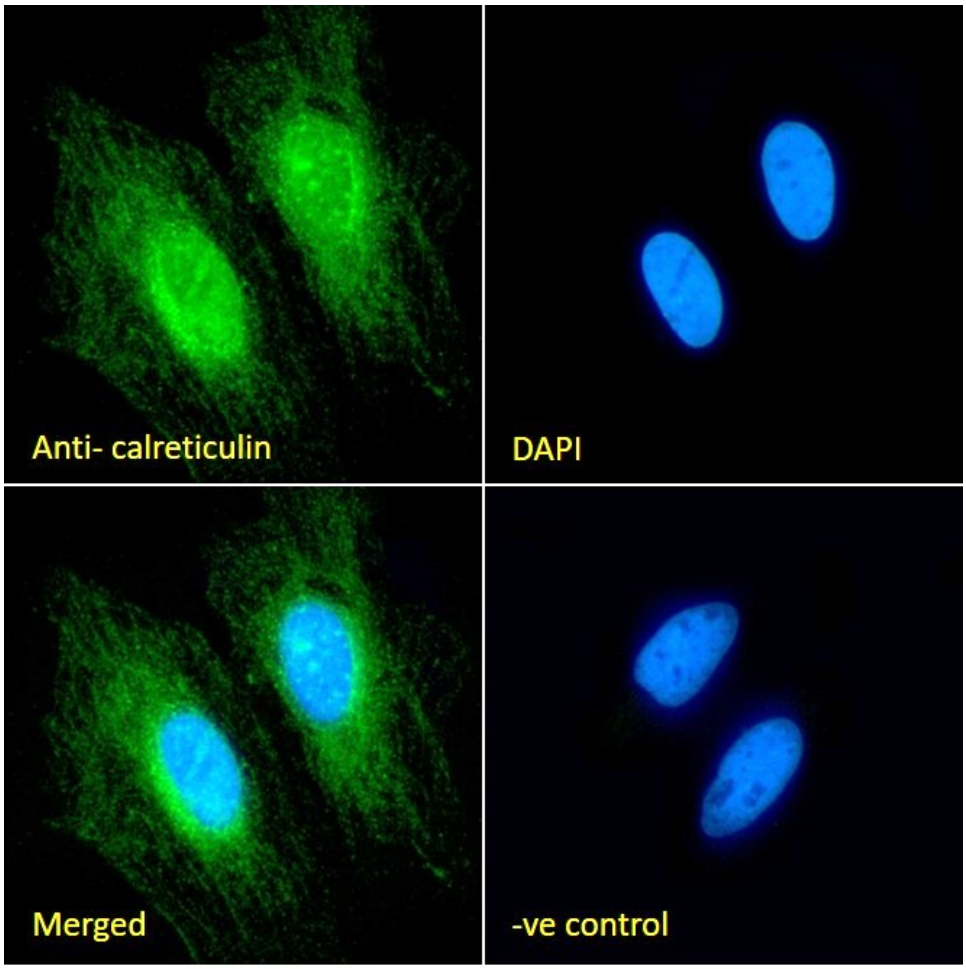
EB12387 optimised QC. Primary incubation 1 hour at room temperature.

Image A: HeLa cell lysate at primary Ab concentration 0.01ug/ml. Image B: HEK293 cell lysate at primary Ab concentration 0.03ug/ml. Image C: MCF7 cell lysate at primary Ab concentration 0.1ug/ml (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.

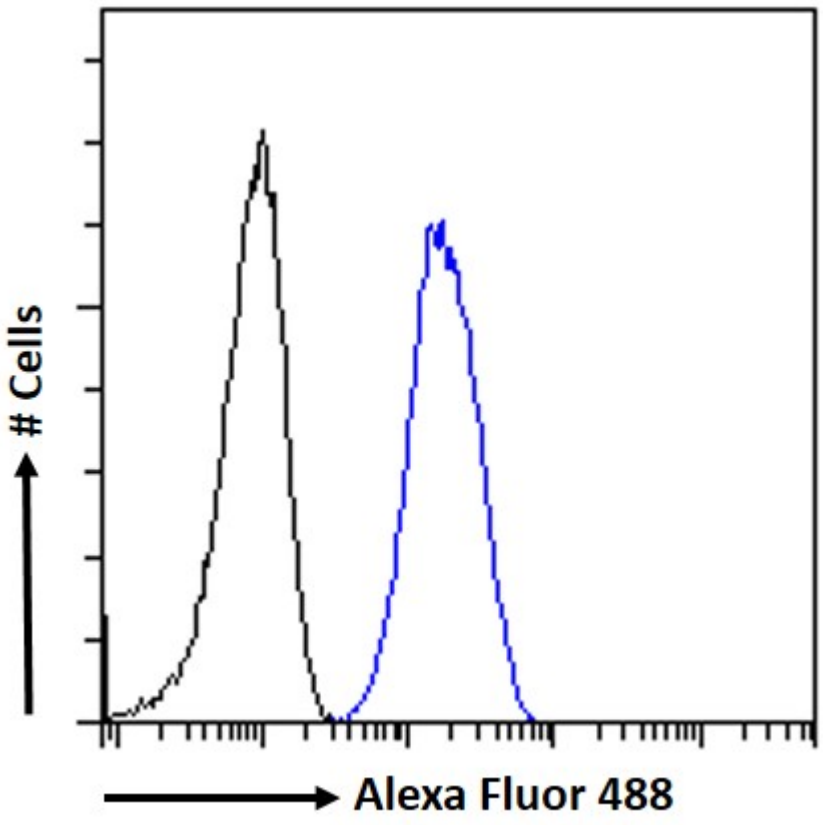


EB12387 optimised QC. Primary incubation 1 hour at room temperature.

Image A: Human Lung lysate at primary Ab concentration 0.5ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB12387 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 and Endoplasmic Reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB12387 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.