

# Product Datasheet

## Calreticulin Antibody (1G6A7) [Alexa Fluor® 488] NBP1-47518AF488

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP1-47518AF488**

Calreticulin Antibody (1G6A7) [Alexa Fluor® 488]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	1G6A7
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Conjugate	Alexa Fluor 488
Purity	Protein A or G purified
Buffer	50mM Sodium Borate

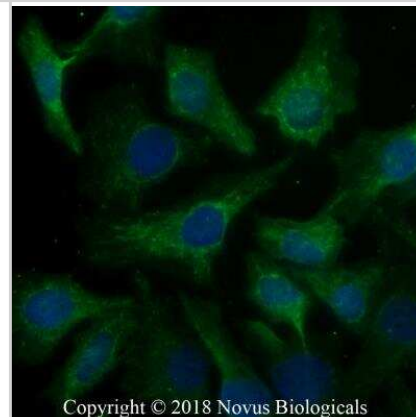
Product Description	
Host	Mouse
Gene ID	811
Gene Symbol	CALR
Species	Human, Mouse
Marker	Endoplasmic Reticulum Marker
Immunogen	Calreticulin Antibody (1G6A7) was developed against a synthetic peptide corresponding to the C-terminus (EEEDVPGQAKDELG) of human Calreticulin, conjugated to KLH. [UniProt# P27797]
Notes	Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@lifetech.com">outlicensing@lifetech.com</a> . This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, In vitro assay
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, In vitro assay, Flow (Intracellular)
Application Notes	Optimal dilution of this antibody should be experimentally determined.

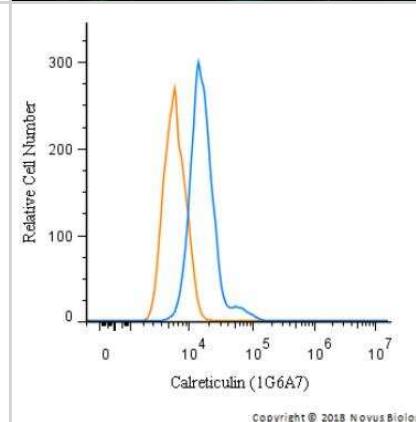


## Images

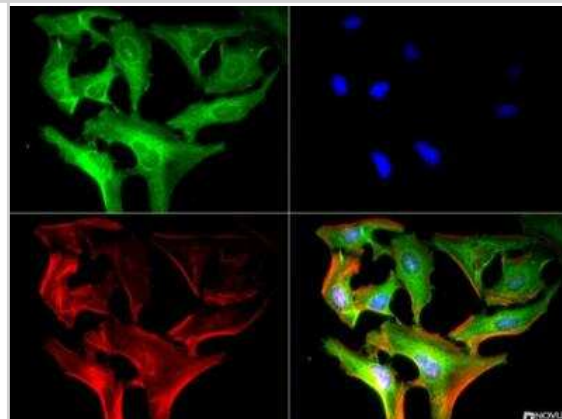
**Immunocytochemistry/Immunofluorescence: Calreticulin Antibody (1G6A7) [Alexa Fluor 488] [NBP1-47518AF488]** - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-Calreticulin (1G6A7) conjugated to Alexa Fluor 488 [NBP1-47518AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



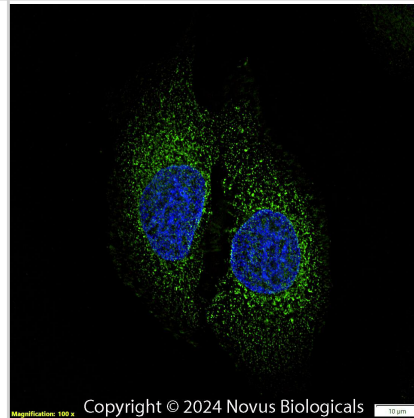
**Flow Cytometry: Calreticulin Antibody (1G6A7) [Alexa Fluor® 488] [NBP1-47518AF488]** - An intracellular stain was performed on HepG2 cells with Calreticulin Antibody (1G6A7) NBP1-47518AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



**Immunocytochemistry/Immunofluorescence: Calreticulin Antibody (1G6A7) [Alexa Fluor 488] [NBP1-47518AF488]** - The Calreticulin antibody was tested in HeLa cells at a 1:250 dilution against Dylight 488 (Green). Actin was counterstained against Phalloidin 568 (Red) and cells were mounted in DAPI Fluoromount (Blue).



Calreticulin (1G6A7) was detected in immersion fixed U-2 OS human osteosarcoma cell line using Mouse anti-Calreticulin (1G6A7) Protein G Purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP1-47518AF488) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



## Publications

Montes de Oca R, Alavi AS, Vitali N et al. Belantamab Mafodotin (GSK2857916) Drives Immunogenic Cell Death and Immune-mediated Antitumor Responses In Vivo *Molecular Cancer Therapeutics* 2021-10-01 [PMID: 34253590]

Li Y, Han W, He C et al. Nanoscale Coordination Polymers for Combined Chemotherapy and Photodynamic Therapy of Metastatic Cancer *Bioconjug Chem* 2021-10-04 [PMID: 34607430]

Details:

Citation using the Alexa Fluor 488 format of this antibody.

Go EJ, Yang H, Chon HJ et al. Combination of Irreversible Electroporation and STING Agonist for Effective Cancer Immunotherapy *Cancers* 2020-10-26 [PMID: 33114476] (Human)

Kim DH, Seo J, Na K pH-Sensitive Carbon Dots for Enhancing Photomediated Antitumor Immunity *Immunity Mol. Pharm.* 2020-05-22 [PMID: 32407125]

Details:

Citation using the Alexa Fluor 488 format of this antibody.





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### **Products Related to NBP1-47518AF488**

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H00004332-M01	MNDA Antibody (1H2) - Azide and BSA Free
IC003G	Mouse IgG2a Isotype Control (20102) [Alexa Fluor® 488]
NBP1-44499	Recombinant Human Calreticulin His Protein
210-TA-005	TNF-alpha [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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