

ARG22220 anti-Calreticulin antibody

Package: 100 µl
Store at: -20°C

Summary

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| Product Description | Rabbit Polyclonal antibody recognizes Calreticulin |
| Tested Reactivity | Hu, Ms, Rat, Bov, Chk, Dog, Gpig, Hm, Mk, Pig, Rb, Sheep |
| Tested Application | FACS, ICC/IF, IHC-P, IP, WB |
| Specificity | Detects ~63kDa. |
| Host | Rabbit |
| Clonality | Polyclonal |
| Target Name | Calreticulin |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide from Human calreticulin (with a cysteine residue added) |
| Conjugation | Un-conjugated |
| Alternate Names | CALR; Calreticulin; Calregulin; CC1qR; SSA; CRT; RO; Sicca Syndrome Antigen A (Autoantigen Ro; Calreticulin); Endoplasmic Reticulum Resident Protein 60; FLJ26680; CALR1; CRP55; ERp60; HACBP; Grp60; Epididymis Secretory Sperm Binding Protein Li 99n; Autoantigen Ro; HEL-S-99n; CRTC |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|-----------------|
| | FACS | Assay-dependent |
| | ICC/IF | 1:100 |
| | IHC-P | Assay-dependent |
| | IP | Assay-dependent |
| | WB | 1:1000 |

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

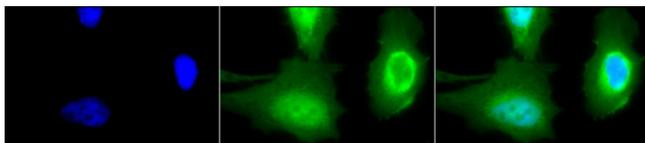
| | |
|---------------|---|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol |
| Preservative | 0.09% Sodium azide |
| Stabilizer | 50% Glycerol |
| Concentration | 1 mg/ml |

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| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

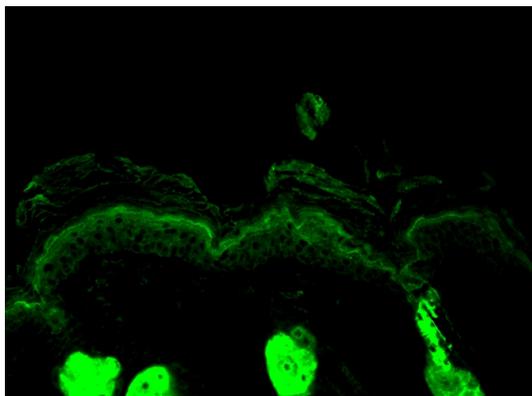
| | |
|-----------------------|---|
| Gene Symbol | CALR |
| Gene Full Name | calreticulin |
| Background | Calreticulin is a highly conserved chaperone protein which resides primarily in the endoplasmic reticulum, and is involved in a variety of cellular processes, among them, cell adhesion. Additionally, it functions in protein folding quality control and calcium homeostasis. Calreticulin is also found in the nucleus, suggesting that it may have a role in transcription regulation. Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin. Recurrent mutations in calreticulin have been linked to various neoplasms, including the myeloproliferative type. |
| Function | Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. |
| Research Area | Controls and Markers antibody; Signaling Transduction antibody; ER Marker antibody; Endoplasmic reticulum antibody |
| Calculated Mw | 48 kDa |
| PTM | Acetylation, Disulfide bond, Glycoprotein, Hydroxylation |
| Cellular Localization | Cytoplasm, Cytoplasmic vesicle, Endoplasmic reticulum, Extracellular matrix, Lysosome, Sarcoplasmic reticulum, Secreted |

Images



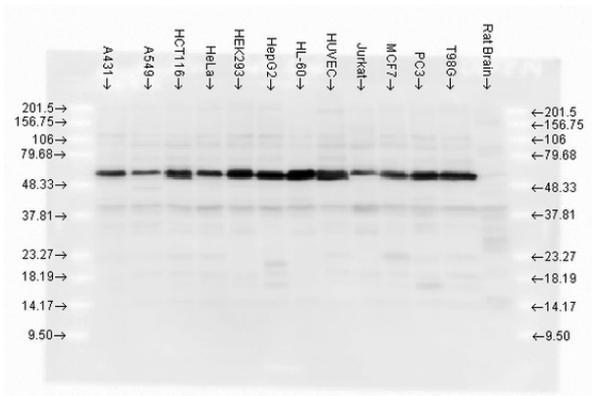
ARG22220 anti-Calreticulin antibody ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed Heat Shocked HeLa cells stained with ARG22220 anti-Calreticulin antibody (green) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 100x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.



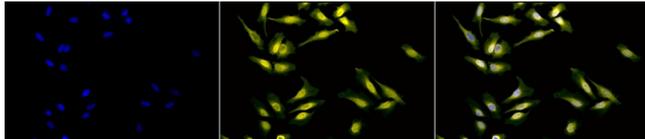
ARG22220 anti-Calreticulin antibody IHC image

Immunohistochemistry: Bouin solution fixed Mouse backskin stained with ARG22220 anti-Calreticulin antibody (green) at 1:100 dilution (1 hour).



ARG22220 anti-Calreticulin antibody WB image

Western blot: 15 µg of A431, A549, HCT116, HeLa, HEK293, HepG2, HL-60, HUVEC, Jurkat, MCF7, PC3, T98G, and Rat brain lysates stained with ARG22220 anti-Calreticulin antibody at 1:1000 dilution.



ARG22220 anti-Calreticulin antibody ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed Heat Shocked HeLa cells stained with ARG22220 anti-Calreticulin antibody (yellow) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 20x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.