

## Product datasheet for **TA321647S**

### Calreticulin (CALR) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Hela, 293T and NIH/3T3 cells IHC: 50-200 Positive control: Human ovarian cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 20-218 amino acids of human calreticulin
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	48 kDa
Gene Name:	calreticulin
Database Link:	<a href="#">NP_004334</a> <a href="#">Entrez Gene 12317 Mouse</a> <a href="#">Entrez Gene 64202 Rat</a> <a href="#">Entrez Gene 811 Human</a> <a href="#">P27797</a>



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**Background:**

Calreticulin is a multifunctional protein that acts as a major Ca(2+)-binding (storage) protein in the lumen of the endoplasmic reticulum. It is also found in the nucleus; suggesting that it may have a role in transcription regulation. Calreticulin binds to the synthetic peptide KLGFFKR; which is almost identical to an amino acid sequence in the DNA-binding domain of the superfamily of nuclear receptors. Calreticulin binds to antibodies in certain sera of systemic lupus and Sjogren patients which contain anti-Ro/SSA antibodies; it is highly conserved among species; and it is located in the endoplasmic and sarcoplasmic reticulum where it may bind calcium. The amino terminus of calreticulin interacts with the DNA-binding domain of the glucocorticoid receptor and prevents the receptor from binding to its specific glucocorticoid response element.

**Synonyms:**

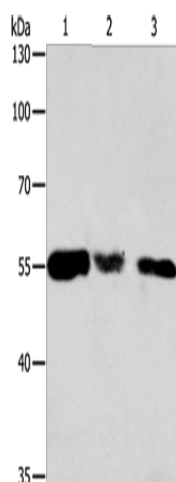
cC1qR; CRT; HEL-S-99n; RO; SSA

**Protein Families:**

Druggable Genome, Secreted Protein, Transcription Factors

**Protein Pathways:**

Antigen processing and presentation

**Product images:**

Gel: 10%SDS-PAGE

Lysate: 40 µg

Lane 1-3: HeLa cells

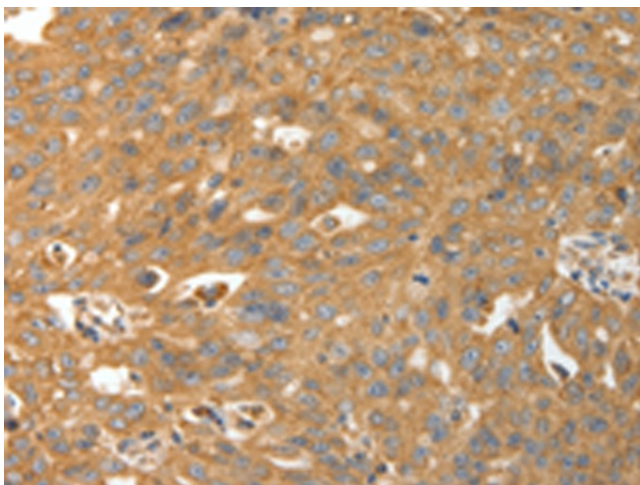
293T cells

NIH/3T3 cells

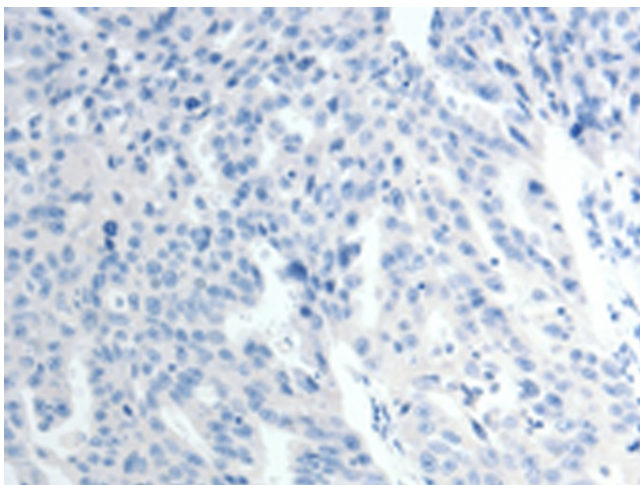
Primary antibody: [TA321647] (CALR Antibody) at dilution 1/500

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

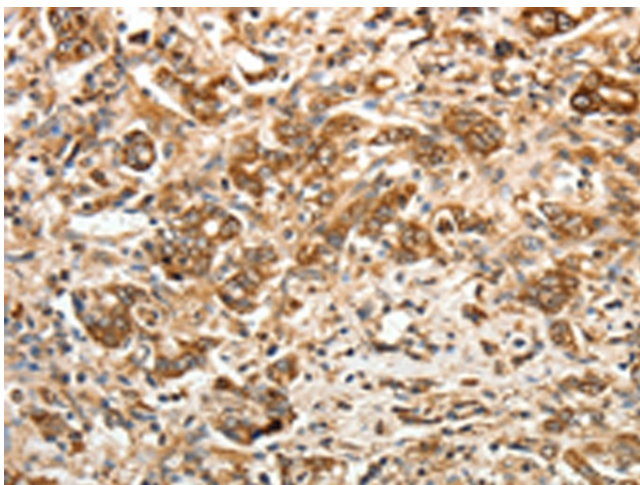
Exposure time: 30 seconds



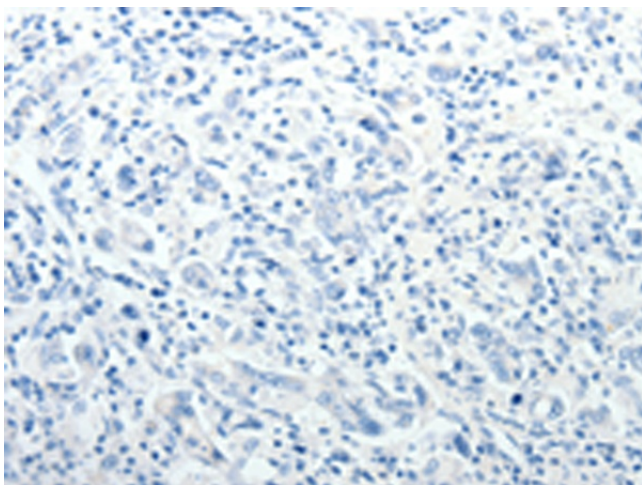
Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA321647] (CALR Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA321647] (CALR Antibody) at dilution 1/30, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA321647] (CALR Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA321647] (CALR Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: ×200)