

## Recombinant Calreticulin Monoclonal Antibody

catalog number: AN301032L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

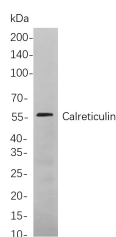
Reactivity	Human;Mouse;Rat
Immunogen	Recombinant Human Calreticulin protein
Host	Rabbit
Isotype	IgG, $\kappa$
Clone	5A7
Purification	Protein A
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications

### Recommended Dilution

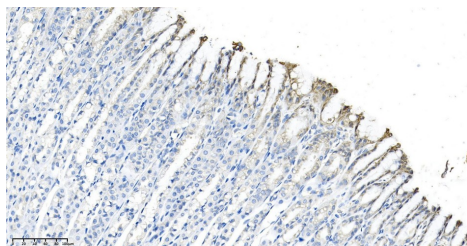
IHC	1:200-1:1000
WB	1:1000-1:5000

### Data

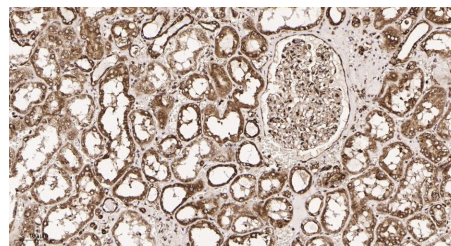


Western Blot with Recombinant Calreticulin Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: NIH-3T3 cells.

**Observed-MW:55 kDa**  
**Calculated-MW:48 kDa**



Immunohistochemistry of paraffin-embedded rat stomach using Recombinant Calreticulin Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded human kidney tissue using Recombinant Calreticulin Monoclonal Antibody at dilution of 1:200.

### Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

### Background

### For Research Use Only

Toll-free: 1-888-852-8623  
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Rev. V1.0

Calreticulin is a multifunctional protein that acts as a major  $\text{Ca}^{2+}$ -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.