

Calreticulin Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50302

Clone# BP6279

Predicted Molecular Wt: 48kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P27797

Background:

Calcium is a universal signaling molecule involved in many cellular functions, such as cell motility, metabolism, protein modification, et al. Calcium is stored in the endoplasmic reticulum (ER), where it is buffered by calcium binding chaperones such as calnexin and calreticulin. Calreticulin also functions as an ER chaperone that ensures proper folding and quality control of newly synthesized glycoproteins.

Calreticulin is expressed in all kinds of normal tissues and tumor tissues.

Calreticulin purified from tumor can stimulate the anti-tumor immune response of the body, the possible mechanism is that the calreticulin molecule binds to the tumor antigen polypeptide, and in the process of calreticulin to the cell membrane, the tumor antigen peptide bound with it is brought to the cell membrane and presented to the antigen-presenting cell, thus stimulating the anti-tumor immune effect of the body. Calreticulin purified from tumor can stimulate the anti-tumor immune response of the body, the possible mechanism is that the calreticulin molecule binds to the tumor antigen polypeptide, and in the process of calreticulin to the cell membrane, the tumor antigen peptide bound with it is brought to the cell membrane and presented to the antigen-presenting cell, thus stimulating the anti-tumor immune effect of the body.

Subcellular location:

Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

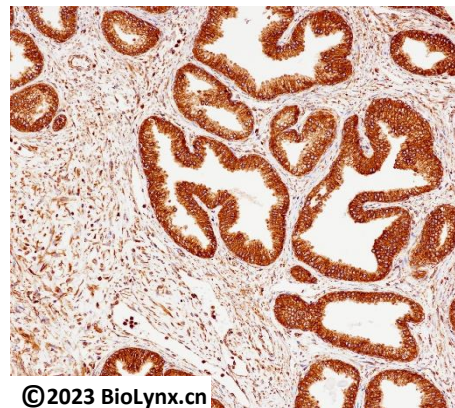
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200


Background References:

1. Groenendyk, J. et al. (2004) Mol Cells 17, 383-9.
2. Williams, D.B. (2006) J Cell Sci 119, 615-23.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate labelling Calreticulin with BP6279.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.