

Calreticulin (ANT0056R) Rabbit mAb

CatalogNo: ANT8162 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 48kD (Calculated)
- 55kD (Observed)

Isotype

- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0056R

Target Information

Endogenous

Gene name CALR
Protein Name Calreticulin

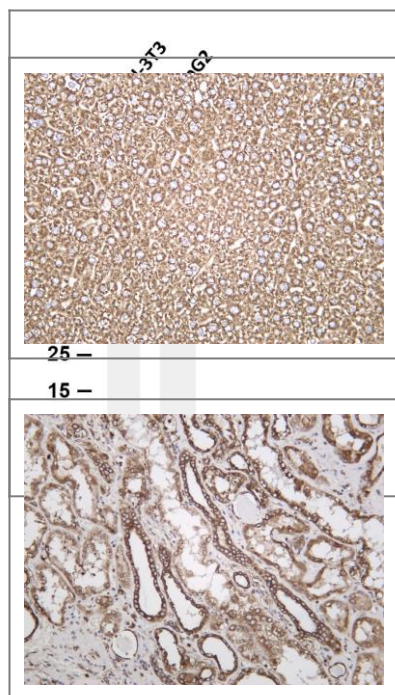
Organism	Gene ID	UniProt ID
Human	811 ;	P27797 ;
Mouse	12317 ;	P14211 ;
Rat	64202 ;	P18418 ;

Cellular Localization Cytoplasm

Tissue specificity Brain,Cajal-Retzius cell,Colon carcinoma,Eye,Fetal brain cortex,Keratinocyte,Liver,Pancreas

Function Caution:Was originally (PubMed:2332496) thought to be the 52 kDa Ro autoantigen.,Domain:Associates with PDIA3 through the tip of the extended arm formed by the P-domain.,Domain:Can be divided into a N-terminal globular domain, a proline-rich Pdomain forming an elongated arm-like structure and a C-terminal acidic domain. The Pdomain binds one molecule of calcium with high affinity, whereas the acidic C-domain binds multiple calcium ions with low affinity.,Domain:The interaction with glycans occurs through a binding site in the globular lectin domain.,Domain:The zinc binding sites are localized to the N-domain.,Function:Molecular calcium binding chaperone promoting folding, oligomeric assembly and quality control in the ER via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export.,mass spectrometry: PubMed:11149926,online information:Calreticulin,online information:Calreticulin entry,similarity:Belongs to the calreticulin family.,subcellular location:Also found in cell surface (T cells), cytosol and extracellular matrix. Associated with the lytic granules in the cytolytic Tlymphocytes.,subunit:Monomer. Component of an EIF2 complex at least composed of CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5. Interacts with PDIA3/ERp57 and with NR3C1.,

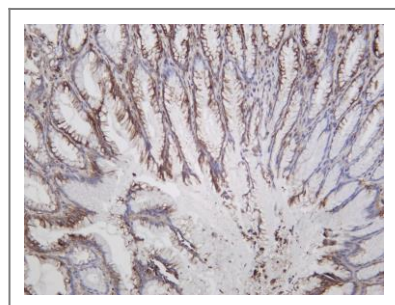
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Calreticulin (ANT0056R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: HepG2
Predicted band size: 48kDa Observed band size: 55kDa

Mouse liver was stained with Anti-Calreticulin (ANT0056R) rabbit antibody

Human kidney was stained with Anti-Calreticulin (ANT0056R) rabbit antibody



Human stomach was stained with Anti-Calreticulin (ANT0056R) rabbit antibody

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