

Datasheet for ABIN6656052 anti-Calreticulin antibody

2 Images



Overview

Quantity:	200 µL
Target:	Calreticulin (CALR)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calreticulin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP),
	Immunofluorescence (IF), Fluorescence Microscopy (FM)

## Product Details

Purpose:	Calreticulin Antibody					
Immunogen:	Calreticulin Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide of human calreticulin.					
Isotype:	lgG					
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Calreticulin from Human, mouse, rat, bovine, canine, chicken, guinea pig, monkey, pig, hamster, rabbit , and sheep based on 100 % homology with the immunizing sequence.					
Purification:	Anti-Calreticulin Antibody was prepared from monospecific antiserum by delipidation and defibrination.					
Sterility:	Sterile filtered					

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6656052 | 01/21/2025 | Copyright antibodies-online. All rights reserved.

Target Details										
Target:	Calreticulin (CALR)									
Alternative Name:	Calreticulin (CALR Products)									
Background:	Synonyms: CALR, Calregulin, cC1qR, CRP55, ERp60, HSCBP, RO, SSA, grp60, Calreticulin,									
	Endoplasmic reticulum resident protein 60, CRTC									
	Background: Calreticulin is a multifunctional, highly conserved Ca2+ -binding protein that is									
	localized to the endoplasmic reticulum (ER), but has also been detected in the nucleus and									
	nuclear envelop. Like many other ER proteins, it has the conserved ER retention KDEL (Lys-Asp-									
	Glu-Leu) sequence at its C-terminus. CRT's three domains include a 180 residue N-terminal									
	domain, a proline-rich P-domain (residues 189-288) that binds Ca2+ with high affinity and									
	shares homology with calnexin (CNX) and calmegin, and a 110 residue C-terminal domain that									
	binds Ca2+ with low affinity but high capacity. Recent studies suggest that this soluble ER									
	protein has a multifunctional role. It appears to be involved in calcium storage and regulation as									
	well as having a molecular chaperone activity. It has been shown to interact with the									
	cytoskeleton and to be involved in the regulation of gene expression. Calreticulin may also play a role in cellular proliferation including its apparent activity in the proliferation of certain viruses									
	within mammalian host cells, and it has also been shown to be induced in response to various									
	types of cell stress including amino acid deprivation. Close interconnections among protein									
	synthesis, gene expression and calcium signaling have been observed by many researchers in									
	recent years. Calreticulin might be centrally located and therefore it crucially participates in the									
	coordination of many functions by the cell. Studies also suggest its involvement in a few									
	diseases such as systemic lupus erythematosus, rheumatoid arthritis, celiac disease, complete									
	congenital heart block, and halothane hepatitis.									
	Gene Name: CALR									
Gene ID:	811									
NCBI Accession:	NP_004334									
UniProt:	P27797									
Pathways:	Retinoic Acid Receptor Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling									
	Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Nuclear Hormone									
	Receptor Binding, ER-Nucleus Signaling, Unfolded Protein Response									
Application Details										

Application Notes:	Immunoprecipitation_Dilution: User Optimized
	Immunohistochemistry_Dilution: User Optimized

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6656052 | 01/21/2025 | Copyright antibodies-online. All rights reserved.

Application Details	
	IF_Microscopy_Dilution: 1:200 Western_Blot_Dilution: 1:5000-10000
Comment:	Anti-Calreticulin Antibody has been tested by western blot and immunofluorescence and is suitable for use in IHC and IP. Expect a band approximately ~63kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended
	storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after
	standing at room temperature. This product is stable for several weeks at 4° C as an undiluted
	liquid. Dilute only prior to immediate use.

Expiry Date:

## Images



12 months

## Immunofluorescence

Image1.CalreticulinImmunofluorescence.ImmunofluorescenceMicroscopy of rabbit Anti-CalreticulinAntibody.Tissue:Backskin section of transgenic mice.Fixation:Paraffin-embedded.Primary antibody: anti-Calreticulin for 1h at RT.Seondary antibody: Peroxidaserabbit secondary at 1:10,000 for 45 min at RT.Localization:Cytoplasm.Staining: Calreticulin as precipiated green signal.

	A431→	A540→	нстие→	HeLa→	HE+293→	Hep02→	HL-60→	HIVEC+	Jurkad-+	NCE2+	PC3→	7980→	Rat8rain-+	
201 5→ 156.75→ 106→ 79.68→														←201.5 ←158.75 ←105 ←79.68
48.33→	-	203	-	-	-	-	1.0	-	-		-	-	-	←48.33
37.81→				-		-			-	-				←37.81
22.27→														6-23.27
18.19→														e-18.19
14.17→														←14.17
9.50→														←9.50
			Cale Sou Con Cate Lot San Max	eticul rce c t t cour	in e			Rub Stre 100 R91 169 68 k 150 655	bit Po peMa 0 4 2 Dia pprot 15	ityclo rg Sane	N			

## Western Blotting

**Image 2.** Calreticulin Western Blot. Western Blot of rabbit anti-Calreticulin anitbody. Lane 1: A431. Lane 2: A549. Lane 3: HCT116. Lane 4: HeLa. Lane 5: HEK293. Lane 6: HepG2. Lane 7: HL-60. Lane 8: HUVEC. Lane 9: Jurkat. Lane 10: MCF7. Lane 11: PC3. Lane 12: T98G. Lane 13: Rat Brain. Load: 10ug. Primary antibody: Calreticulin at 1:1000 overnight at 4°C. Secondary antibody: Goat anti-rabbit IgG HRP at 1:40,000 for 45 min at RT. Blocked: 5% Blotto overnight at 4°C. Predicated/observed size: 48kDa, 63kDa for Calreticulin.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN6656052 | 01/21/2025 | Copyright antibodies-online. All rights reserved.