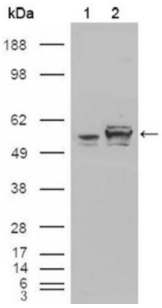
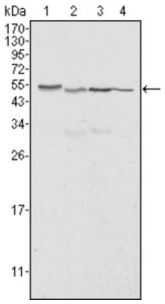
Calreticulin (CALR) Antibody

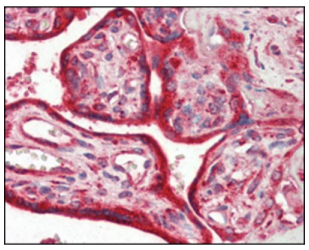
Catalogue No.:abx016075



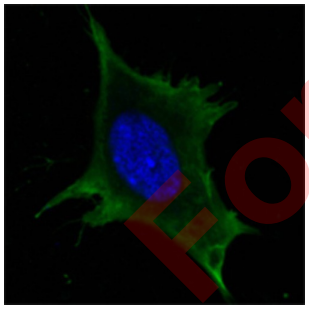
Western blot analysis using Calreticulin antibody against Hela (1), A549 (2), NTERA2 (3) and MCF-7 (4) cell lysate.



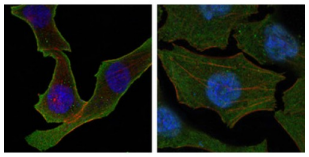
Western blot analysis using Calreticulin antibody against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY Calreticulin cDNA (2).



Immunohistochemical analysis of paraffin-embedded human placenta tissues using Calreticulin antibody.



Confocal immunofluorescence analysis of 3T3-L1 cells using Calreticulin antibody (green). Blue: DRAQ5 fluorescent DNA dye.



Confocal immunofluorescence analysis of SKBR-3 (left) and A549 (right) cells using Calreticulin antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

Calreticulin, also known as RO, CALR, SSA, cC1qR, FLJ26680, CALR.Entrez Protein NP_004334.It 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.Calreticulin can inhibit the binding of androgen receptor to its hormone-responsive DNA element and can inhibit androgen receptor and retinoic acid receptor transcriptional activities in vivo, as well as retinoic acid-induced neuronal differentiation.Thus, calreticulin can act as an important modulator of the regulation of gene transcription by nuclear hormone receptors.Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin but calreticulin is not a Ro/SS-A antigen.Earlier papers referred to calreticulin as an Ro/SS-A antigen but this was later disproven.Increased autoantibody titer against human calreticulin is found in infants with complete congenital heart block of both the IgG and IgM classes.

Target:	Calreticulin (CALR)
Clonality:	Monoclonal
Reactivity:	Human, Mouse
Tested Applications:	ELISA, WB, IHC, IF/ICC
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, IF/ICC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Synthetic peptide corresponding to aa (EEEDVPGQAKDELC) of human Calreticulin, conjugated to KLH.
Isotype:	IgG_{2a}
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P27797 (UniProt, ExPASy)
Gene Symbol:	CALR
GeneID:	811
OMIM:	109091

Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

NCBI Accession:	NP_004334.1
HGNC:	1455
KEGG:	hsa:811
Ensembl:	ENSG00000179218
String:	9606.ENSP00000320866
Molecular Weight:	48 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com