Anti-CALR antibody

Cat. No.	ml220723
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-CALR rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human CALR
Reactivity	Human, Mouse, Rat
Content	0.2 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	CALR
Full name	Calreticulin

Synonyms	RO; CRT; SSA; cC1qR
Swissprot	P27797

Target Background

Calreticulin 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.

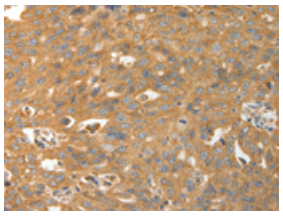
Applications

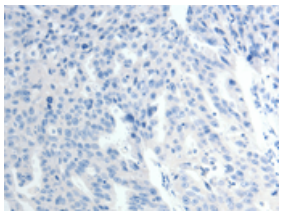
Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human ovarian cancer

Recommended dilution: 50-200



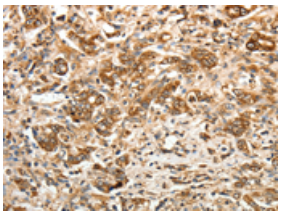


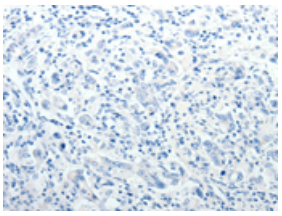
The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using ml220723(CALR Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Cytoplasm

Positive control: Human gastric cancer

Recommended dilution: 50-200





The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using ml220723(CALR Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:48 kDa

Positive control:Hela, 293T and NIH/3T3 cells

Recommended dilution: 1000-5000

Gel: 10%SDS-PAGE

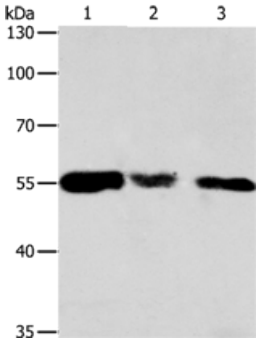
Lysate: 40 μg

Lane 1-3: Hela cells, 293T cells, NIH/3T3 cells

Primary antibody: ml220723(CALR Antibody) at dilution 1/500

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 seconds



ELISA

Recommended dilution: 2000-10000

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