

Product datasheet

Anti-Calreticulin antibody ab2908

★★★★★ 1 Abreviews 4 References 2 Images

Overview

Product name	Anti-Calreticulin antibody
Description	Chicken polyclonal to Calreticulin
Host species	Chicken
Tested applications	Suitable for: WB, ICC, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Rabbit, Hamster, Dog, Human, Non human primates
Immunogen	Synthetic peptide corresponding to Mouse Calreticulin aa 399-414. Sequence: DEKEEDEEESPGQAKD (Peptide available as ab4927) Run BLAST with Run BLAST with
Positive control	HeLa cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgY

Applications

Our [Abpromise guarantee](#) covers the use of **ab2908** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Can be blocked with Calreticulin peptide (ab4927) .
ICC		Use at an assay dependent concentration.
ICC/IF	★★★★★	Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

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.

Sequence similarities

Belongs to the calreticulin family.

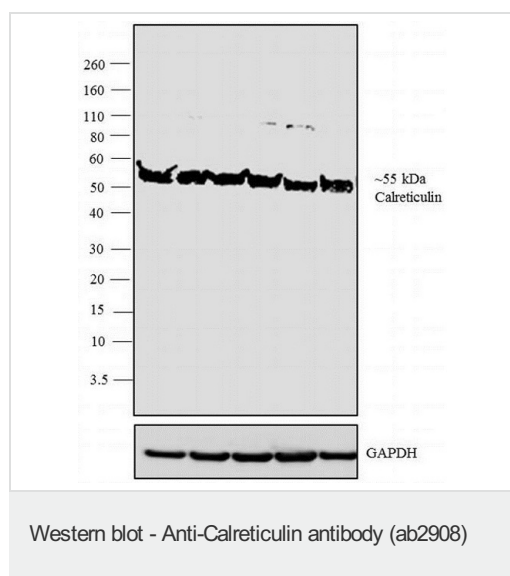
Domain

Can be divided into a N-terminal globular domain, a proline-rich P-domain forming an elongated arm-like structure and a C-terminal acidic domain. The P-domain binds one molecule of calcium with high affinity, whereas the acidic C-domain binds multiple calcium ions with low affinity. The interaction with glycans occurs through a binding site in the globular lectin domain. The zinc binding sites are localized to the N-domain. Associates with PDIA3 through the tip of the extended arm formed by the P-domain.

Cellular localization

Endoplasmic reticulum lumen. Cytoplasm > cytosol. Secreted > extracellular space > extracellular matrix. Cell surface. Also found in cell surface (T cells), cytosol and extracellular matrix. Associated with the lytic granules in the cytolytic T-lymphocytes.

Images



All lanes : Anti-Calreticulin antibody (ab2908) at 1/2000 dilution

Lane 1 : MCF7

Lane 2 : MDA-MB-231

Lane 3 : HeLa

Lane 4 : K-562

Lane 5 : Jurkat

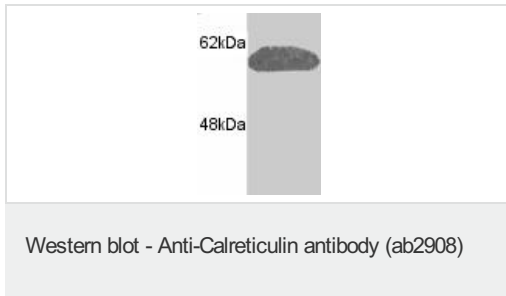
Lane 6 : A549

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Goat anti-Chicken IgY (H+L) Secondary Antibody, HRP conjugate at 0.4 µg/ml

Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.



Western blot of calreticulin on HeLa cell extract using ab2908.

Western blot of calreticulin on HeLa cell extract using ab2908.

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