

Anti-Calreticulin Antibody (4H35)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	4H35
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in: 293 whole cell lysate-All lanes: CALR antibody at 1:1000-Secondary: Goat polyclonal to mouse IgG at 1/50000 dilution-Predicted band size: 49 kDa-Observed band size: 49 kDa <p>2. IHC image of TMAH-00134 diluted at 1:300 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.</p> <p>3. Immunofluorescence staining of HepG2 cell with TMAH-00134 at 1:250, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).</p> <p>4. Overlay Peak curve showing JK cells stained with TMAH-00134 (red line) at 1:300. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1μg/1*10⁶ cells) used under the same conditions. Acquisition of >10,018 events was performed.</p>
Application:	ELISA,FCM,IF,IHC,WB
Recommended	WB:1:1000-1:5000; IHC:1:20-1:200; IF:1:20-1:200; FCM:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human CALR Protein
Antigen Species: Human
Gene ID: 811
Uniprot ID: P27797
Synonyms: CRT; cC1qR; RO; SSA; HEL-S-99n; calreticulin
Biology Area: Tags & Cell Markers

Research Background

Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (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. Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis. Present in the cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation and might participate in the block to polyspermy.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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