

Product name : **Calreticulin pAb;human, mouse, rat, bovine, canine, chic**

Catalog number : **ASASPA-600D**

Quantity: **50 µg**

**Alternative Name:** CALR, CRT

**Purity Detail:** Protein A affinity purified.

**Formulation:** Liquid. In PBS containing 50% glycerol and 0.09% sodium azide.

**Immunogen:** Synthetic peptide corresponding to the sequence near the C-terminus of human Calreticulin.

**Source/Host:** From rabbit.

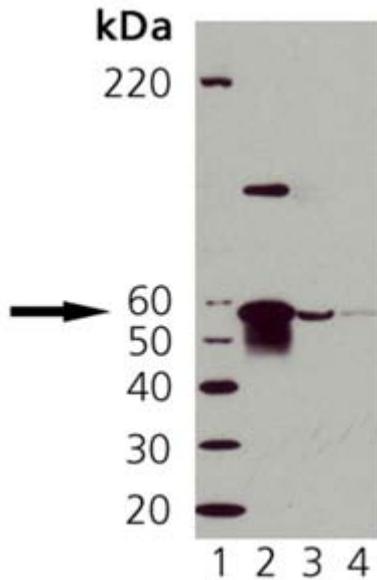
**Specificity:** Recognizes human, mouse, rat, bovine, and dog calreticulin. Detects a band of ~63kDa by Western blot.

**Application:** Immunocytochemistry  
Immunohistochemistry  
Immunoprecipitation  
Western Blot (1:1000, human; 1:500, mouse; ECL)  
Optimal conditions must be determined individually for each application.

**Long Term Storage:** -20°C

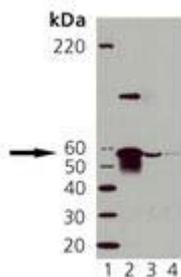
**Miscellaneous/General:** Calreticulin (CRT) is a multifunctional, multi-compartmental protein most abundant in the ER lumen. CRT contains the ER-retrieval sequence, KDEL, and has been best characterized as a soluble molecular chaperone of new or misfolded proteins and a Ca<sup>2+</sup>- binding protein. Both CRT and its

membrane bound homolog, Calnexin (CNX) interact with proteins and glycoproteins that have monoglucosylated N-glycans. The CRT/CNX cycle promotes correct folding, inhibits aggregation of folding intermediates, blocks premature oligimerization, regulates ER degradation, and provides quality control by preventing incompletely folded glycoproteins from exiting to the Golgi complex.



Western Blot Analysis of Calreticulin: Lane 1: MWM, Lane 2: HeLa cell lysate, Lane 3: PC-12 cell lysate. Lane 4: 3T3 cell lysate

Please mouse over



## Product Literature References

*Dominant pro-vasopressin mutants that cause diabetes insipidus form disulfide-linked fibrillar aggregates in the endoplasmic reticulum:* J. Birk, et al.; *J. Cell Sci.* **122**, 3994 (2009)

*Tumor suppressor NM23-H1 is a granzyme A-activated DNase during CTL-mediated apoptosis, and the nucleosome assembly protein SET is its inhibitor:* J. Lieberman, et al. ; *Cell* **112**, 659 (2003), **Application(s):** ICC, WB using human samples

*A-kinase anchor protein 84/121 are targeted to mitochondria and mitotic spindles by overlapping amino-terminal motifs:* A. Feliciello, et al. ; *J. Mol. Biol.* **320**, 663 (2002), **Application(s):** ICC using mouse samples

*Bcl-XI affects Ca<sup>2+</sup> homeostasis by altering expression of inositol 1,4,5-trisphosphate receptors:* C.B. Thompson, et al. ; *PNAS* **99**, 9830 (2002), **Application(s):** WB using mouse samples

Gentaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium

Myelin proteolipid protein forms a complex with integrins and may participate in integrin receptor signaling in oligodendrocytes: W.B. Macklin, et al. ; J. Neurosci. **22**, 7398 (2002), **Application(s)**: ICC, WB using rat samples, [Abstract](#):

Pseudoachondroplasia is caused through both intra- and extracellular pathogenic pathways: P. Maurer, et al. ; J. Clin. Invest. **110**, 505 (2002), **Application(s)**: IP using bovine samples, [Abstract](#):

The anti-adhesive activity of thrombospondin is mediated by the N-terminal domain of cell surface calreticulin: J.E. Murphy-Ullrich, et al. ; J. Biol. Chem. **277**, 37219 (2002), **Application(s)**: ICC using bovine samples, [Abstract](#):

Folding of hepatitis C virus E1 glycoprotein in a cell-free system: S. Abrignani, et al. ; J. Virol. **75**, 11205 (2001), **Application(s)**: IP using canine samples, [Abstract](#):

Calnexin and calreticulin binding to human thyroperoxidase is required for its first folding step(s) but is not sufficient to promote efficient cell surface expression: J.L. Franc, et al. ; Endocrinology **141**, 959 (2000), **Application(s)**: IP using human samples, [Abstract](#):

Genetic evidence for selective transport of opsin and arrestin by kinesin-II in mammalian photoreceptors: S.B. Goldstein, et al. ; Cell **102**, 175 (2000), **Application(s)**: IHC using mouse samples, [Abstract](#):

ERcalcistorin/protein-disulfide isomerase acts as a calcium storage protein in the endoplasmic reticulum of a living cell. Comparison with calreticulin and calsequestrin: B. Kaminer, et al. ; J. Biol. Chem. **273**, 9857 (1998), **Application(s)**: ICC, WB using human samples, [Abstract](#):

GENTAU