



Product Specification Sheet

**Calnexin antibody**

□ Cat # CANX11-A

Rabbit Anti-Human Calnexin (S583) antibody

**SIZE:** 100 ug

Calnexin, a calcium-binding protein of the calreticulin family. A type I membrane protein of the endoplasmic reticulum. Interacts with newly synthesized glycoproteins in the endoplasmic reticulum. May act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. It seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins. Associated with partial T-cell antigen receptor complexes that escape the ER of immature thymocytes, it may function as a signaling complex regulating thymocyte maturation. Additionally, it may play a role in receptor-mediated endocytosis at the synapse.

**Source of Antigen or Antibodies**

**Uniprot:** P27824

**Host:** Rabbit

**Clonality:** Polyclonal

**Purification:** Ammonium sulfate followed by peptide affinity Purification

**Immunogen:** 20 amino acid synthetic phosphorylated peptide surrounding Serine 583

**Reactivity:** Human and Mouse

**Cross reactivity:** The peptide used as an immunogen exhibits 100% homology with but not limited to Non-human primates, Horse, Bovine, Pig, Cat, Dog, Sheep, Goat, Mouse, and Rat. The antibody will recognize both phosphorylated and non-phosphorylated Calnexin

**Subcellular location:** Endoplasmic reticulum

**Alternative names:** IP90, Major histocompatibility complex class I antigen-binding protein p88, p90

**Recommended Secondary Antibody:** Goat anti-Rabbit IgG-HRP (**ADI cat # 20320**)

**Negative Control:** Non-immune Rabbit IgG (**ADI cat# 20009-1**).

**Form & Storage of Antibodies**

**Affinity pure IgG**

□ Solution

Concentration: 0.5 mg/ml                      Volume: 200 ul  
Supplied in PBS pH 7.4 + 0.1% BSA

\*Antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Reconstitute powder in 200 ul distilled water to 0.5 mg/ml

**Storage:**

**Short-term:** 4°C for 1 month

**Long-term:** at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

**Recommended Usage**

**ELISA:** Assay dependent concentration. Typically 0.1-2.0 ug/ml for capture or detection antibodies.

**Western Blotting:** 0.5-2 ug/ml

Predicted band size: 67 kDa

Observed band size: ~90 kDa.

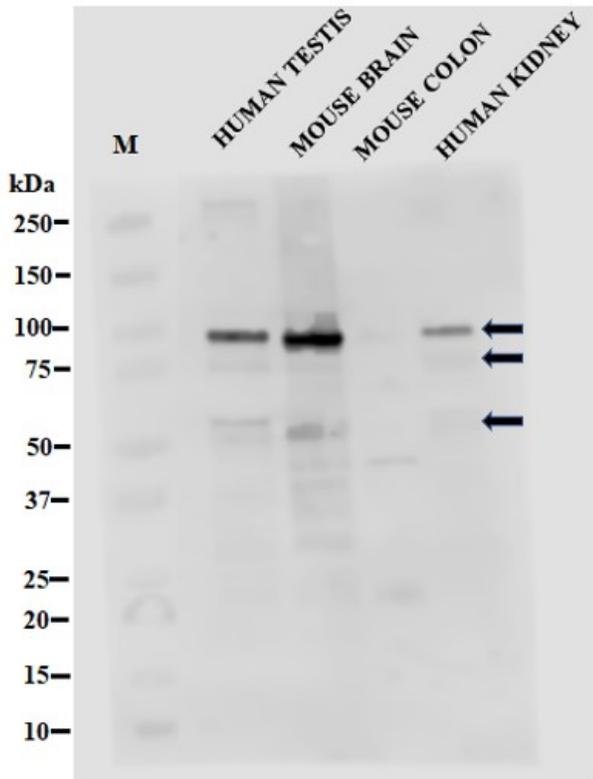
\*Note: The antibody may also recognize isoforms 2 and 3 of ~71.5 and 55.6 kDa.

The above concentrations are a *suggestion*, user's must optimize the antibody concentration based on their own conditions. The antibody may work in other applications such as Immunohistochemistry or Immunocytochemistry. These applications have not been tested by ADI.

*\*This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
CALR11-A	Rabbit anti-Mouse Calreticulin (CALR) antibody
CANX11-A	181109IA



20 ug of various Human and Mouse lysates were heated for 5 minutes at 95°C then separated on a 10% SDS-PAGE gel. The gel was run for ~1 hour and 30 minutes at 100V and transferred to a 0.2 um nitrocellulose membrane using the 'High MW' settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with Fish plasma (Aquablock, EastCoastBio). **CANX11-A** was diluted with TBST+0.1% BSA to 1 ug/ml and incubated for 2 hours at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) was diluted 1:10,000 (50 ng/ml) in TBST+0.1% BSA and incubated for 1 hour at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. The blot was incubated with ADI Femto ECL substrate (**ADI cat#80210**) for 5 minutes then imaged on a CCD imaging system (LI-COR, C-DIGIT). Specific band is observed at ~90 kDa. Other bands observed may represent Isoform 2 (~71 kDa) and Isoform 3 (~56 kDa).