## International Office

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# EB09525 - Goat Anti-Calnexin Antibody

Size: 100µg specific antibody in 200µl

## Target Protein

**Principal Names:** CANX, calnexin, CNX, FLJ26570, IP90, P90, major histocompatibility complex class I antigen-binding protein p88
**Official Symbol:** CANX
**Accession Number(s):** NP_001737.1
**Human GeneID(s):** 821
**Non-Human GeneID(s):** 12330 (mouse), 29144 (rat)
**Important Comments:** Reported variants represent identical protein (NP_001019820.1, NP_001737.1).

## Immunogen

Peptide with sequence C-SKTPELNLDQFHDKT, from the internal region (near N Terminus) of the protein sequence according to NP_001737.1.

Please note the peptide is available for sale.

## Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

## Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:128000.
**Western blot:** Approx 90-100kDa band observed in Human Cerebellum and Rat Brain lysates and in lysates of cell lines LNCaP and U251 (calculated MW of 67.6kDa according to Human NP_001737.1 and 67.3kDa according to Rat NP_742005.1). This molecular weight is routinely observed by other sources, Recommended concentration: 0.1-0.5/ml. Primary incubation 1 hour at room temperature.
**IHC:** Paraffin embedded Human Cortex. Recommended concentration: 6µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the endoplasmic reticulum and cytoplasm of U251 cells and in the endoplasmic reticulum and plasma membranes of LNCaP cells. Recommended concentration: 10µg/ml.

## Species Reactivity

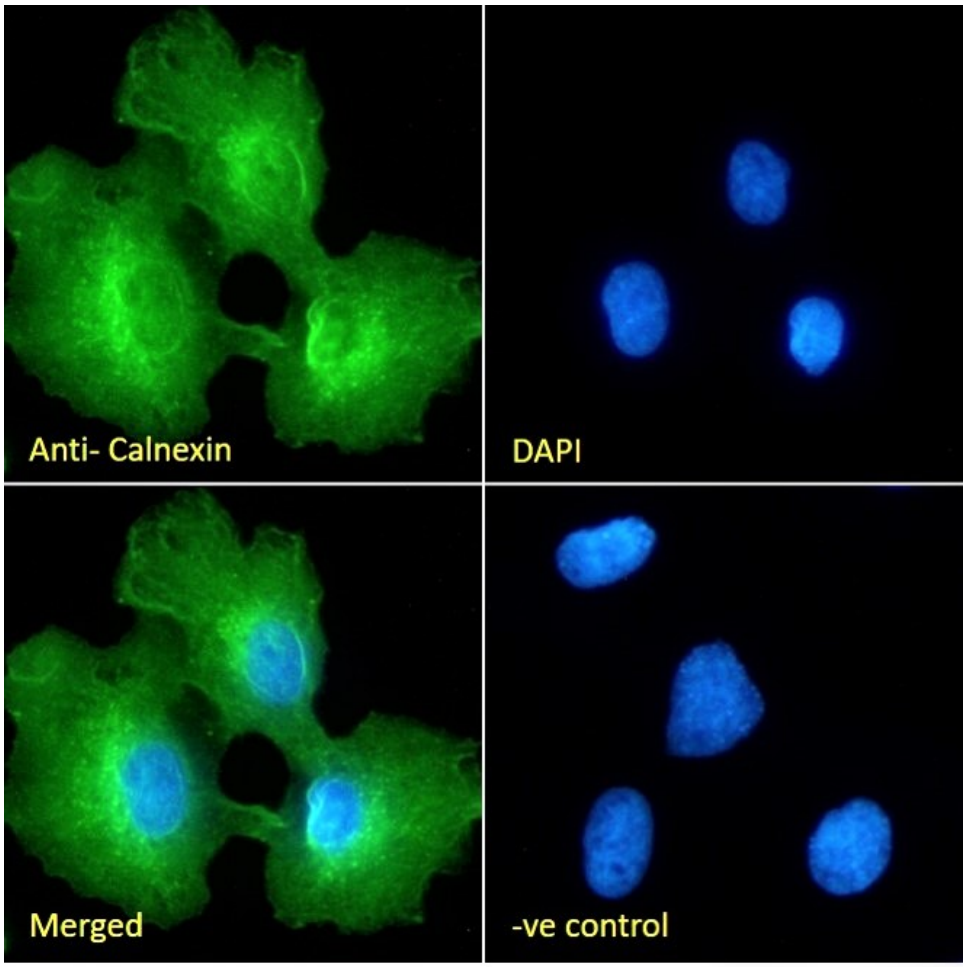
**Tested:** Human, Rat
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Pig, Cow

## Specific Reference

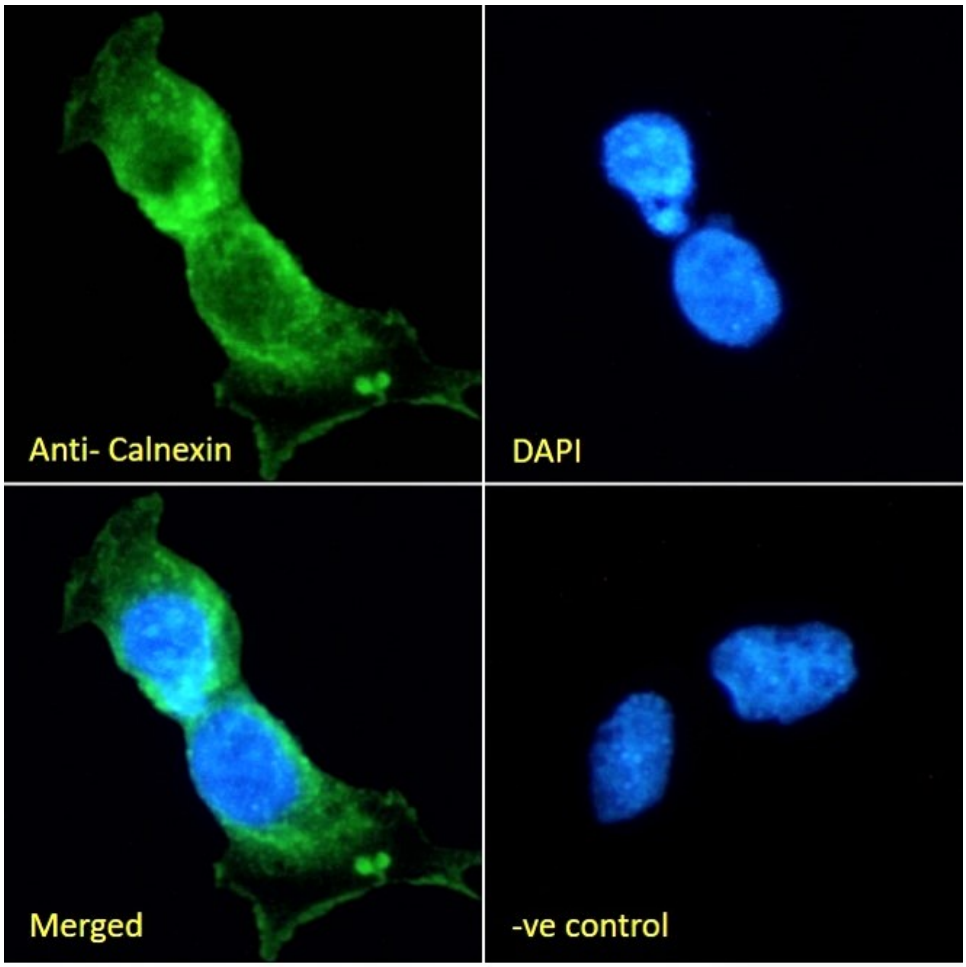
**This antibody has been successfully used in the following paper:**
Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen
A high-throughput pipeline for validation of antibodies
Nat Methods. 2018 Nov;15(11):909-912
PMID: 30377371


EB09525 (0.3µg/ml) staining of Human Cerebellum (A) and (0.5ug/ml) Rat Brain (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

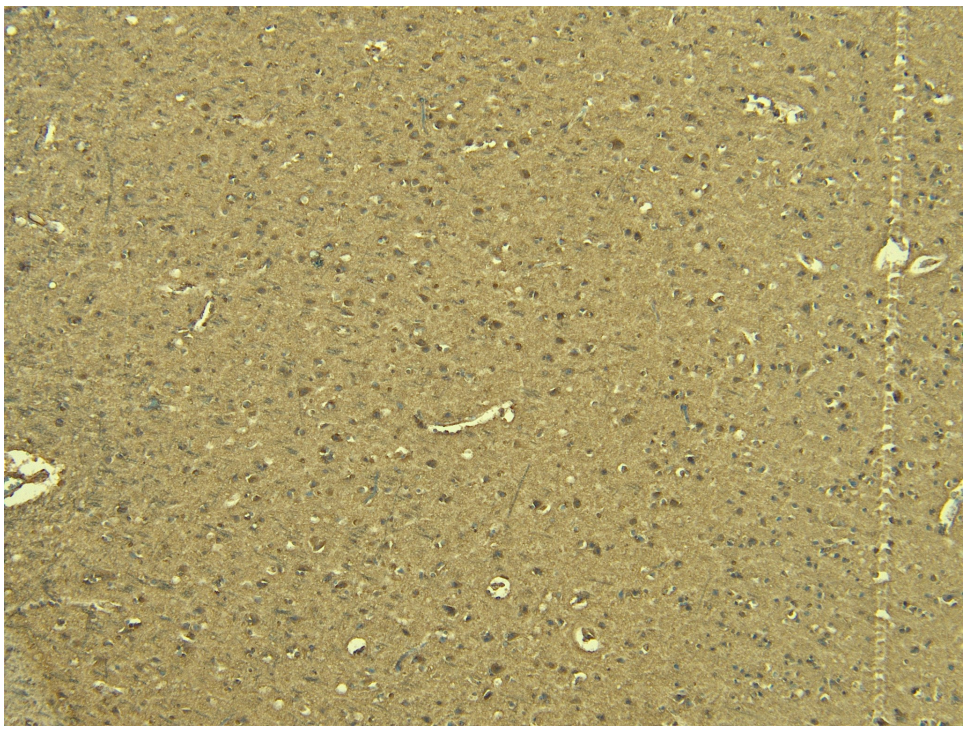

EB09525 (0.5µg/ml) staining of LNCaP (A) and U251 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



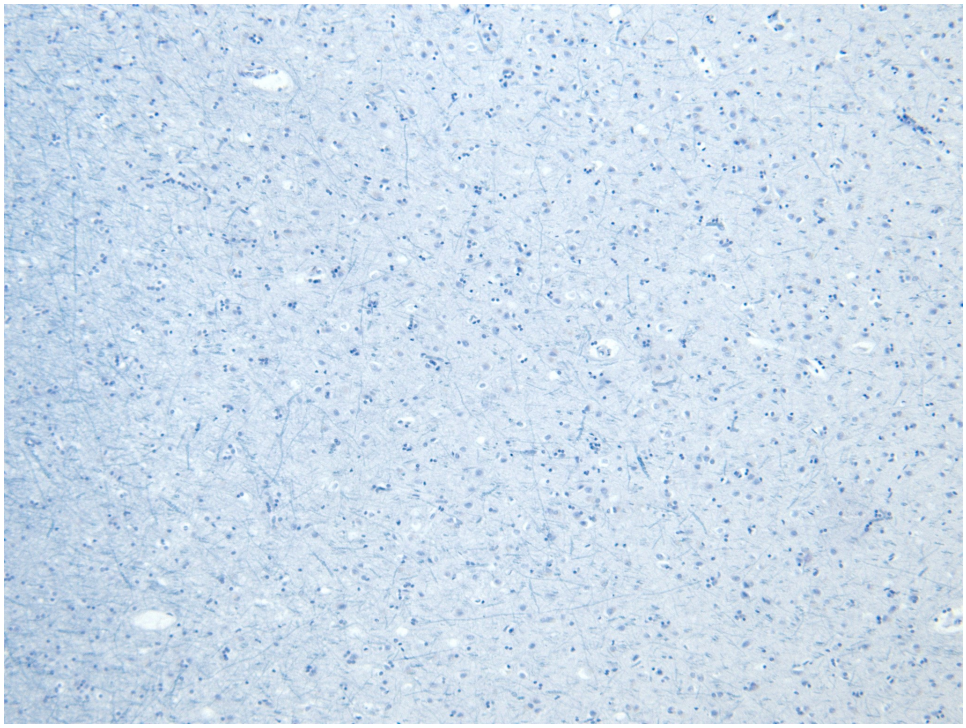

EB09525 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).




EB09525 Immunofluorescence analysis of paraformaldehyde fixed LNCaP cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing endoplasmic reticulum and membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09525 (6µg/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB09525 Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.