

## UK Office

### Everest Biotech Ltd

Cherwell Innovation Centre  
77 Heyford Park  
Upper Heyford  
Oxfordshire  
OX25 5HD  
UK

Enquiries:

[info@everestbiotech.com](mailto:info@everestbiotech.com)

Sales:

[sales@everestbiotech.com](mailto:sales@everestbiotech.com)

Tech support:

[support@everestbiotech.com](mailto:support@everestbiotech.com)

Tel: +44 (0)1869 238326

[www.everestbiotech.com](http://www.everestbiotech.com)

**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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 1:32000.

**Western blot:** Approx. 100kDa band observed in Mouse Heart, Human Brain (Cerebellum), NIH3T3 and HeLa lysates (calculated MW of 67.6kDa according to Human NP\_001737.1 and 67.2kDa according to Mouse NP\_001103969.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Oliver et al., J Biol Chem. 1996 Jun 7;271(23):13691-6., PMID: 8662691). Recommended concentration: 0.3-1µg/ml.

**IHC:** In paraffin embedded Human Kidney shows textured staining in the cytoplasm of DCT cells. Recommended concentration: 3-6µg/ml. Paraffin embedded Human Testis and Uterus. Recommended concentration: 3.75µg/ml.

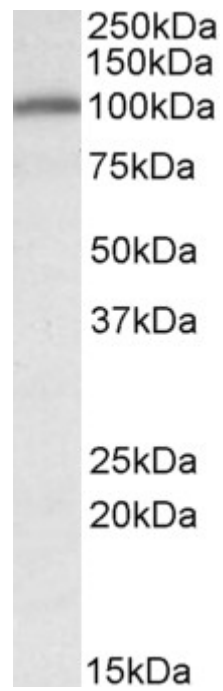
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of NIH3T3 cells. Recommended concentration: 5µg/ml.

**Enzyme immunoassay:** Sandwich-type ELISA with increasing amount of recombinant Calnexin captured by a rabbit antibody. Recommended reporter concentration: 1-2ug/ml

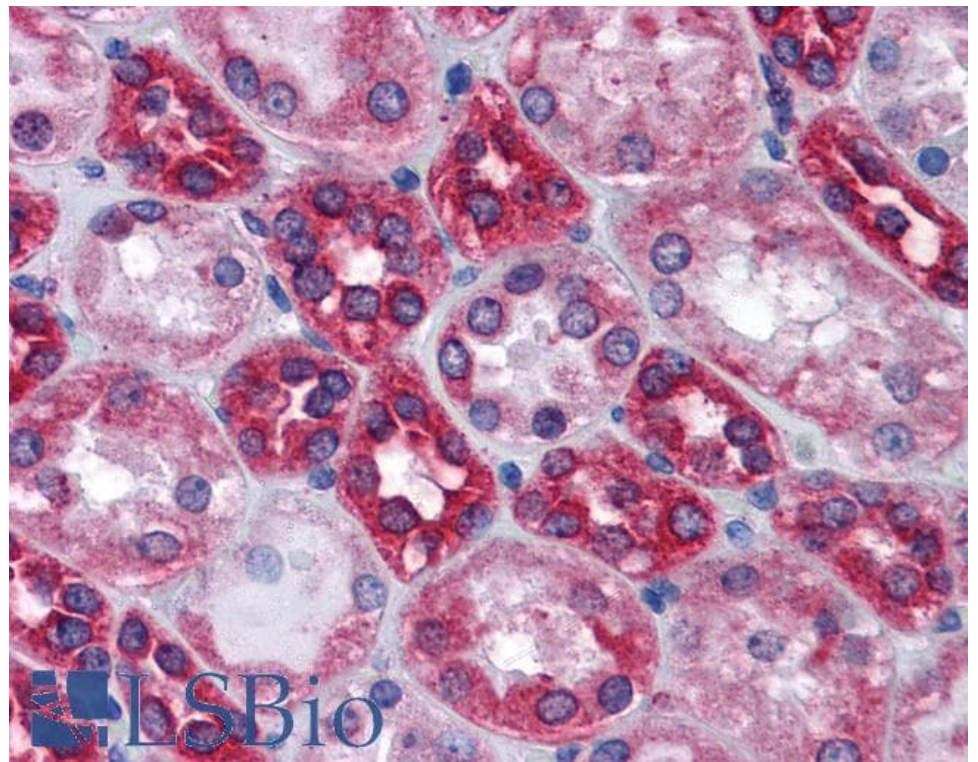
### Species Reactivity

**Tested:** Human, Mouse

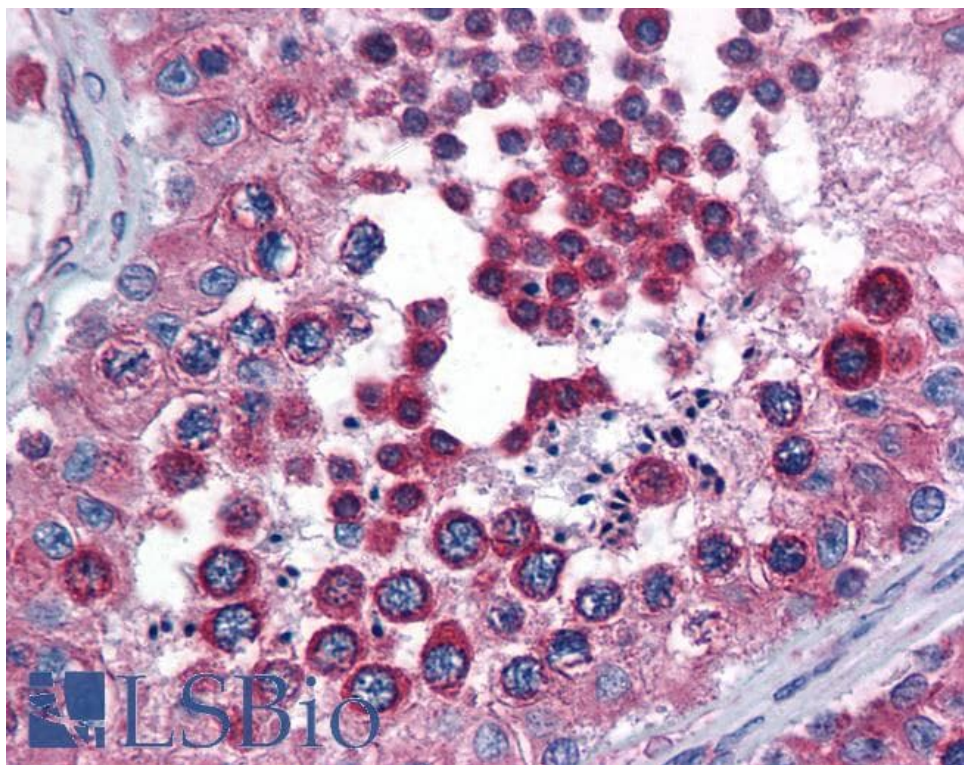
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Pig, Cow



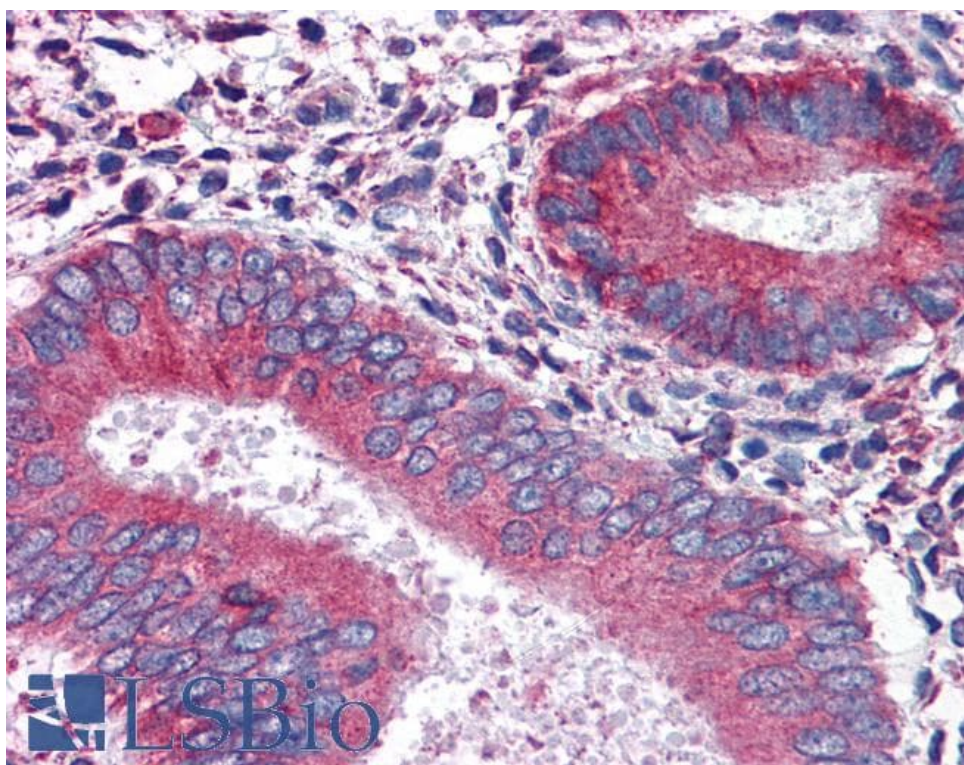
EB09525 (0.3 $\mu$ g/ml) staining of Mouse Heart lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour.  
Detected by chemiluminescence.



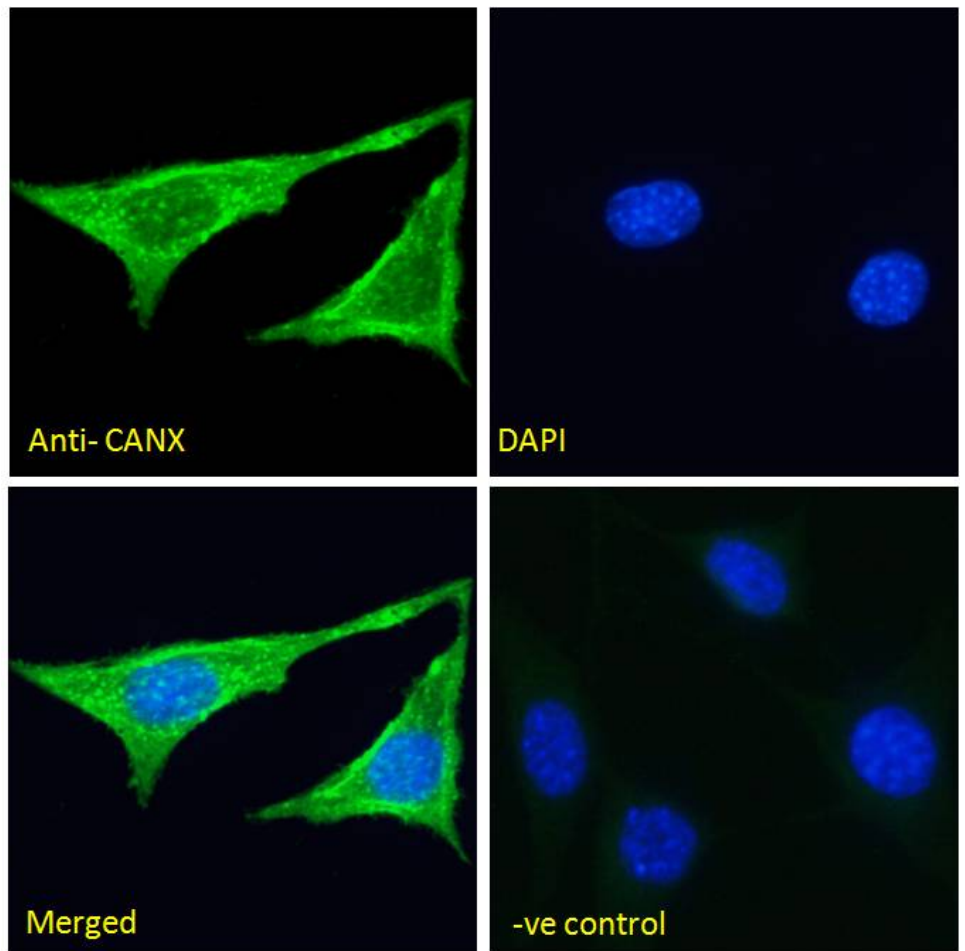
EB09525 (3.8 $\mu$ g/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



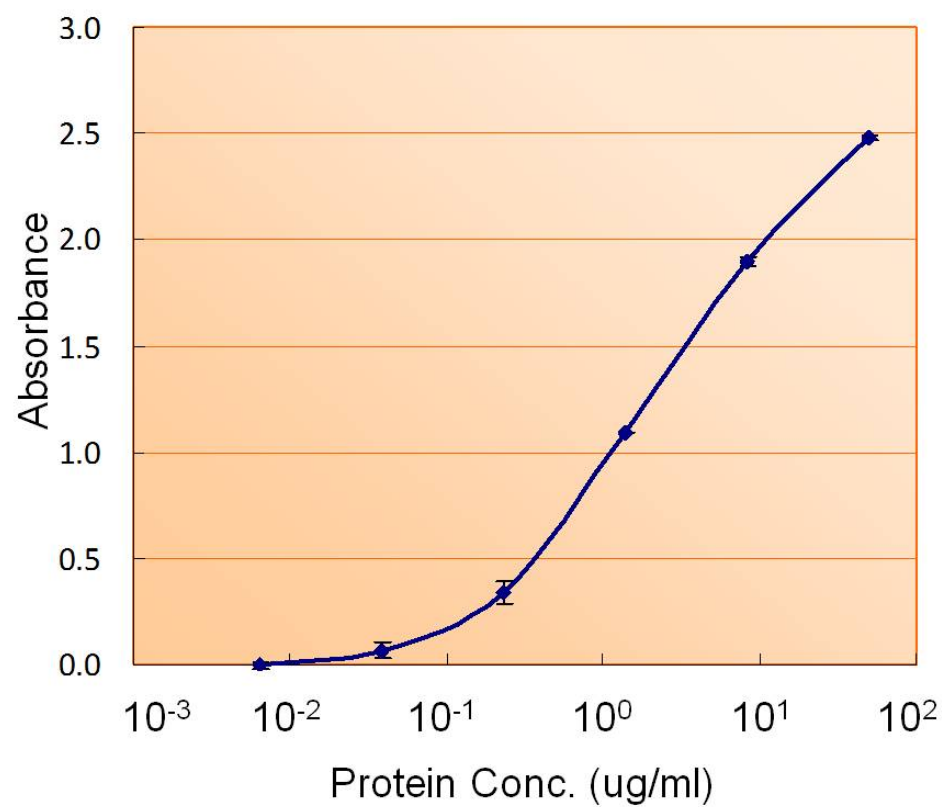
EB09525 (3.75µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09525 (3.75µg/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09525 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09525 (1.5ug/ml) as the reporter with EB002024 as the capture rabbit antibody (2.5ug/ml).