

## Anti-Latexin Antibody (4S702)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4S702
Purification:	Protein A

### Applications

1. Immunofluorescence staining of Human LXN in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Rabbit anti-Human LXN monoclonal antibody (1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

2. Flow cytometric analysis of Human LXN expression on MCF-7 cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human LXN, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

3. Anti-LXN rabbit monoclonal antibody at 1:500 dilution.

-Lane A: A549 Whole Cell lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.

Verified Activity: -Developed using the Odyssey technique.

-Performed under reducing conditions.

-Predicted band size:26 kDa.

-Observed band size:26 kDa.

4. LXN was immunoprecipitated using:

-Lane A:0.5 mg A549 Whole Cell Lysate.

-Lane B:0.5 mg Hela Whole Cell Lysate.

-2 µL anti-LXN rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.

-Primary antibody:

-Anti-LXN rabbit monoclonal antibody, at 1:200 dilution.

-Secondary antibody:

-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.

-Developed using the odyssey technique.

-Performed under reducing conditions.

-Predicted band size: 25.7 kDa.

-Observed band size: 25.7 kDa

## A DRUG SCREENING EXPERT

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Application: ELISA,FCM,ICC/IF,IP,WB  
Recommended WB: 1:500-1:2000; ELISA: 1:5000-1:10000; ICC-IF: 1:20-1:100; FCM: 1:25-1:100; IP: 4-6 µL/mg of lysate

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.  
Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein: Human Latexin / LXN Protein (TMPY-00870)  
Antigen Species: Human  
Synonyms: latexin

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### Research Background

Latexin, also known as endogenous carboxypeptidase inhibitor, tissue carboxypeptidase inhibitor, TCI, ECI, and LXN, is a cytoplasm protein that belongs to the protease inhibitor I47 (latexin) family. It is highly expressed in the heart, prostate, ovary, kidney, pancreas, and colon. Latexin / LXN is the only known endogenous specific inhibitor of zinc-dependent metalloproteinases (MCPs) present in mammals so far. Latexin is originally identified as a molecular marker for the regional specification of the neocortex in development in rats. The 222 amino acid latexin in the human shows different expression distribution with high levels in heart, prostate, ovary, kidney, pancreas, and colon, but only moderate or low levels in other tissues including the brain. Latexin is also expressed at high levels and is inducible in macrophages in concert with other protease inhibitors and potential protease targets, and thus is suggested to play a role in inflammation and innate immunity pathways. Despite the non-detectable sequence similarity with plant and parasite inhibitors, Latexin is related to a human putative tumor suppressor protein, TIG1. Also, Latexin is implicated in Alzheimer's disease.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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