Rabbit Monoclonal Antibody to Human Latexin

Cat. No. CAB11580RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Latexin
Species	Human
Source	Rabbit
Antigen Description	Human Latexin, also known as tissue or endogenous carboxypeptidase inhibitor (TCI or ECI), is the only known endogenous specific inhibitor of zinc-dependent metallocarboxypeptidases (MCPs) present in mammalians 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 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 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 of the non-detectable sequence similarity with plant and parasite inhibitors, Latexin is related to a human putative tumor suppressor protein, TIG1. In addition, Latexin is also implicated in Alzheimers disease.
Specificity	Human Latexin / LXN. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Human Latexin / LXN Protein

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Isotype	Rabbit IgG
Clone	A102
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human LXN in WB. Using a DAB detection system, the detection limit for Human LXN is approximately 0.25 ng/lane under non-reducing conditions and reducing conditions.Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human LXN. The detection limit for Human LXN is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human Latexin / LXN
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	LXN latexin [Homo sapiens]
Official Symbol	LXN
Synonyms	LXN; latexin; MUM; tissue carboxypeptidase inhibitor; endogenous carboxypeptidase

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	inhibitor; ECI; TCI;
Gene ID	56925
mRNA Refseq	NM_020169
Protein Refseq	NP_064554
MIM	609305
UniProt ID	Q9BS40
Chromosome Location	3q25.32
Function	enzyme inhibitor activity; metalloendopeptidase inhibitor activity;

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