

Datasheet for ABIN7196737

Latexin Protein (LXN) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	Latexin (LXN)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Latexin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Latexin/LXN Protein (His Tag)(Active)
Sequence:	Glu 2-Glu 222
Characteristics:	A DNA sequence encoding the mouse LXN (NP_058033.2) (Glu 2-Glu 222) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Biological Activity Comment:	Measured by its ability to inhibit carboxypeptidase-A1 cleavage of the colorimetric peptide substrate Ac-Phe-Thiaphe-OH in the presence of 5,5'Dithiobis(2-nitrobenzoic acid) (DTNB) (Edwards, K.M. et al, 1999, J. Biol. Chem. 274:30468). The IC50 value is <2.0 nM .

Target Details

Target:	Latexin (LXN)
Alternative Name:	Latexin/LXN (LXN Products)

Target Details

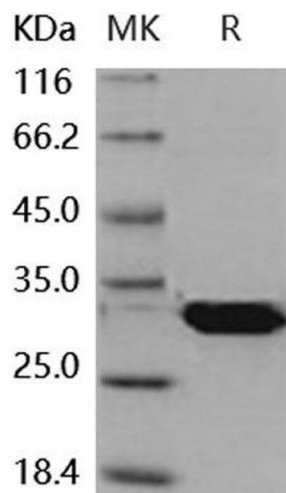
Background:	<p>Background: Latexin, also known as endogenous carboxypeptidase inhibitor, tissue carboxypeptidase inhibitor, TCI, ECI and LXN, is a cytoplasm protein which belongs to the protease inhibitor I47 (latexin) family. It is highly expressed in heart, prostate, ovary, kidney, pancreas, and colon. Latexin / LXN is the only known endogenous specific inhibitor of zinc-dependent metallocarboxypeptidases (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 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 Alzheimer's disease.</p> <p>Synonym: MGC144352, MGC144353</p>
Molecular Weight:	26.3 kDa
NCBI Accession:	NP_058033

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 8.0, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.