



Human Nuclear Pore Membrane Glycoprotein 210 (gp210)

Origin:	Recombinant	Cat. No.:	41A280
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>E.coli</i>	Purity:	>80%
Other Names:	Gp210, Nup210	Species:	Human

Description

Expressed in *E.coli* with total 238 AA. Mw: 24 KDa (calculated).
N-terminal 6xHis-tag and TEV cleavage site, 44 extra AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

The nuclear pore complex(NPC) is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. As a part of NPC, gp210 is detected with a prevalence of 26% in PBC and 4% in AIH.

Immunological Function

As an autoantigen, gp210 binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MRGSHHHHHHGMASMTGGQMGRDLYDDDDKDRWGSENL^{YFQGA}TVCTPRDLAVP
AALTPRASPGHSPHYFAASSPTSPNALPPARKASPPSGLWSPAYASHGGGGSGGGGSTVCTPR
DLAVPAALTPRASPGHSPHYFAASSPTSPNALPPARKASPPSGLWSPAYASHGGGGSGGGGST
VCTPRDLAVPAALTPRASPGHSPHYFAASSPTSPNALPPARKASPPSGLWSPAYASH

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Formulation

Liquid in storage buffer (8M Urea, 10mM Tris, 50mM Na₂HPO₄, pH8.0).

Storage

Store at -20°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

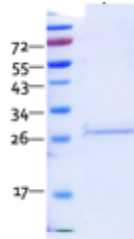
BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.





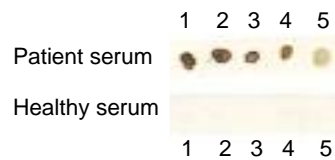
Immunodot analysis to determine functionality of protein.

SDS-PAGE Gel



Dot blot assay

Dot blot analysis of gp210



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation

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