



Human Ribosomal Phosphoprotein P0

Origin:	Recombinant	Cat. No.:	41560
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>E.coli</i>	Purity:	>90%
Other names:	P0, RPLP0	Species:	Human

Description

Expressed in *E.coli* with total 360 AA. Mw: 39.2 kDa (calculated).
N-terminal 6xHis-tag, Xpress Epitope, EK recognition site and TEV cleavage site,
44 extra AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

The ribosomal phosphoproteins (P protein antigens) are associated with the large ribosomal subunit and therefore are antigenic targets with a cytoplasmic localization. Three P proteins have been described: P0 with a molecular weight of 36 kDa, P1 (19 kDa) and P2 (17 kDa).

Autoantibodies against ribosomal P proteins are present in 10 % of SLE patients.

Immunological Function

As an autoantigen, P0 binds with IgG-type human auto-antibodies.

Applications

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

Amino Acid Sequence

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSENL~~YFQGA~~PREDRATWKS
NYFLKIIQLDDYPKCFIVGADNVGSKQMQQIRMSLRGKAVVLMGKNTMMRKAIRGHLENNPA
LEKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAARAGAIAPCEVTVPAQNTGLGPEKTSFFQ
ALGITTKISRGTEIILSDVQLIKTGDKVGASEATLLNMLNISPFSGFLVIQQVFDNGSIYNPEVLDI
TEETLHSRFLGVRNVASVCLQIGYPTVASVPHSIINGYKRVLALSVETDYTFPLAEKVKAFLADP
SAFVAAAPVAAATTAAPAAAAAPAKVEAKEESESEDEDMGFGLFD

Formulation

Liquid in PBS(10mM Na₂HPO₄, 2mM KH₂PO₄, 2.7mM KCl,137mM NaCl, Protease inhibitor, pH7.4).

Storage

Store at -80°C. Avoid repeated freezing/thawing cycles.





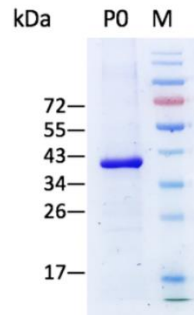
Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

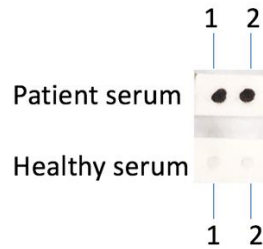
Immunodot analysis to determine functionality of protein.

SDS-PAGE gel



Dot blot assay

Dot blot analysis of PO



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

Contact Us

- Website: www.immunodiagnostics.com.hk
- E-mail: info@immunodiagnostics.com.hk
- Tel: (+852) 2831 5526; 2831 5508
- Fax: (+852) 2816 2095

