Neuberg DIAGNOSTICS

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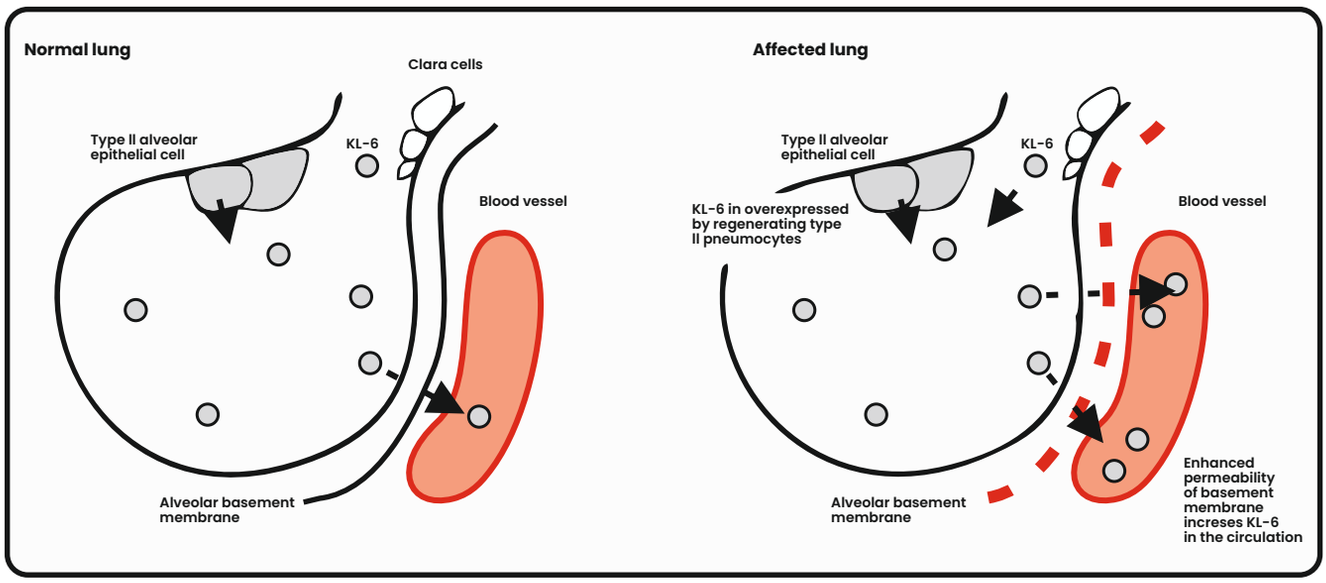
Neu INSIGHTS

Neuberg DIAGNOSTICS CENTER FOR GENOMIC MEDICINE

KL-6

Diagnostic Marker of Interstitial Lung Disease



KL-6

- Interstitial lung diseases (ILDs) represent a large, heterogeneous group of more than 200 different entities, most of which are classified as rare diseases. They are defined as lung diseases that affect the alveolar structures, the pulmonary interstitium, and small airways.
- KL-6 is a high-molecular-weight glycoprotein encoded by the MUC1 gene (Mucin 1 gene) which is distributed mainly on the cell surface of type II alveolar epithelial cells (AECs). When suffering from the inflammatory storm, a disulfide bond near the surface of the epithelial cell membrane of type II AECs may be disrupted, and KL-6 eventually can diffuse into the pulmonary epithelial lining fluid and blood flow.

Clinical Uses & Advantages:

1. Diagnosis & Screening of Interstitial Lung Disease

- KL-6 is only elevated in ILDs, not in other lung diseases or healthy individuals.

2. Predict the progression

- Sequential changes of serum KL-6 can predict the progression of interstitial lung disease.

3. Prognosis

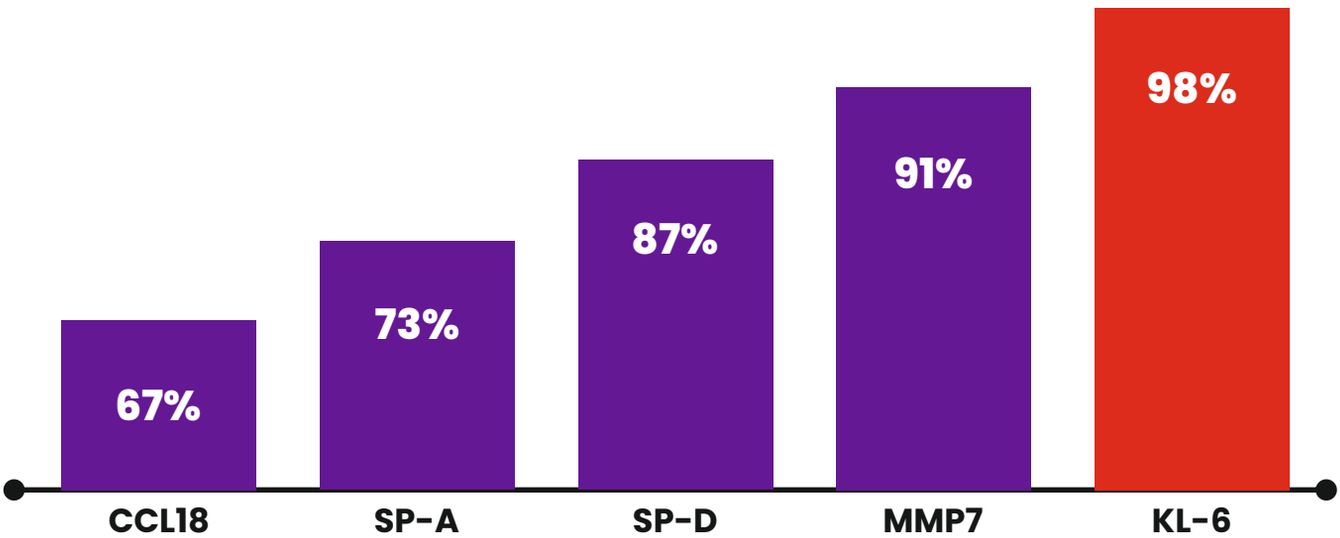
- More KL-6, higher progression, increased mortality

4. Monitoring treatment/exacerbation

Why Neuberg Diagnostics for KL-6?

- Pioneers in NABL & CAP accreditation.
- Established network & reach: Neuberg has a large & growing lab network in India.
- Neuberg has strong automation systems with a large sample processing capability of specialized test like KL-6.
- Neuberg follows rigorous quality standards for testing, meaning better reliability for specialized biomarkers like KL-6.

Diagnostic Accuracy of Different Blood Markers for ILD



Studies indicate that KL-6 is a promising prognostic marker of ILD and improves survival prediction in patients with ILD

	MMP-7	CCL18	SP-A	SP-D	KL-6
Sensitivity	87	66	66	84	97
Sensitivity	93	67	76	88	98
Accuracy	91	87	67	73	98

Ref: Hamai K, Iwamoto H, Ishikawa N, Horimasu Y, Masuda T, Miyamoto S, Nakashima T, Ohshimo S, Fujitaka K, Hamada H, Hattori N, Kohno N. Comparative Study of Circulating MMP-7, CCL18, KL-6, SP-A, and SP-D as Disease Markers of Idiopathic Pulmonary Fibrosis. Dis Markers. 2016;2016:4759040. doi: 10.1155/2016/4759040. Epub 2016 May 17. PMID: 27293304; PMCID: PMC4886062.

Test available at Neuberg Diagnostics

- Test Name - KL-6 (T497)
  Sample type - Serum (Primary)
- Sample Volume -2 ml
  TAT - 24 hours

PARTNERS IN HEALTH

DR. PAVAN DAVE

Consultant Pathologist
pavan.dave@neubergdiagnostics.com
+91 96240 04137

DR. PARTH SHAH

Scientific Advisor
parth.shah@neubergdiagnostics.com
079-40408181

DR. SANDIP SHAH

Consultant Pathologist
M.D. (Pathology & Bacteriology)
Laboratory Director
drsandip@neubergdiagnostics.com
079-40408181