



**ALK 1**

## What is the ALK 1?

ALK 1 is a gene in our body that makes the protein ALK receptor tyrosine kinase, which is a cell surface protein required for proliferation and differentiation of the cell.

## How does this cause cancer?

Our DNA consists of a gene which is responsible for preparation of the ALK 1 protein. Some changes (mutations) in this gene causes improper production of this protein. When the ALK 1 protein is over expressed in the cell, it continuously tells the cell to divide and grow. This leads to excess cell growth that further leads to cancer.

## Why is the test necessary?

As these mutations lead to over expression of the EGFR protein which further leads to rapid division of cells causing cancer, detection of these mutations is necessary to trace a treatment.

## Type of Sample required?

A Tissue sample is required for sequencing.

## Who should get tested?

The one diagnosed with non-small cell lung cancer should be further tested for ALK 1 mutations. Also the one with lung adenocarcinoma should also be tested.

## How is it tested?

The test is carried out by detailed sequencing of the targeted gene by advanced molecular techniques to find out the changes (mutations) in the gene leading to improper functioning of EGFR protein.

**Why  
Greenarray?**

Simple and Safe testing

Accurate results

Modern methods screening

Reliable testing

Proper counseling

### About Green Array

Green Array is a molecular diagnostic company. We offers diagnosis of infectious diseases, genetic testing and healthcare information to improve health and wellness. Our goal is to provide high quality affordable and accessible services.