



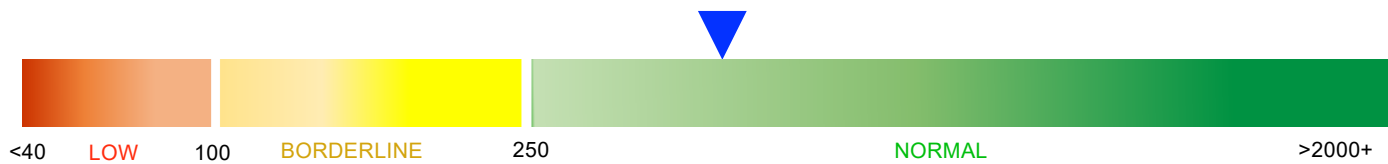
# NK Vue™ NK Cell Activity Report

Patient Information	Specimen Information	Ordering Physician Information
Patient Name: Smith, John Gender: Male Date of Birth: 07/16/64	Date of Collection: 06/05/2019 Order ID: NKV-150 Date Reported: 07/30/2019	Ordering Physician: Dr. David Robinson Institution: Irvine Wellness Location: Irvine, CA Phone: 949-565-1213 Fax: 949-565-1200

## NK CELL ACTIVITY

Current Results (pg/ml)	Previous Results (pg/ml)				See page 2 for additional information about NK Cell monitoring.
<b>550</b>	250	180	120	<40	
	03/14/18	12/14/17	08/20/17	12/14/16	

CURRENT NK CELL ACTIVITY



## WHAT DO THESE RESULTS MEAN?

- Normal** (250 pg/ml or greater) ▶ The activity of NK cells is normal or in good condition. The innate immune system's NK cells are working properly.
- Borderline** (100~249 pg/ml) ▶ The activity of NK cells are below normal values. This could be a sign of a reduction in NK cell activity due to a disease. It could also be caused by temporary physical or psychological stress.
- Low** (below 100 pg/ml) ▶ The activity of NK cells are very low. This could be due to disease, medication, or psychological stress, as they may reduce NK cell activity.

### INTENDED USE AND LIMITATIONS

NK Vue™ is intended for in vitro diagnostic use, for the monitoring of the immune status of individuals. Measurement of NK cell activity could be a useful tool for assessing changes in immunosurveillance, which, in turn, could be indicative of a condition or disease where NK cell activity has been shown to be affected.

### METHODOLOGY

NK Vue™ employs a proprietary stabilized immunomodulatory cytokine (Promoca™) to stimulate NK cells in whole blood. After their activation, a quantitative sandwich enzyme immunoassay (ELISA) is used to determine the levels of IFN-γ secreted. The amount of IFN-γ released by the NK cells is quantitated by comparison to an IFN-γ standard curve. Reportable range for this test is 40 to 40,000 pg/mL.

Laboratory Director: Basel Kashlan, M.D., FCAP • CLIA # : 05D2027259 • CAP # : 7541687

This test is to measure the activity of NK cells and should only be interpreted by a medical professional. The test results should be collected with other test results for further analysis by a specialist. It should be noted that the results may vary depending on your physical or psychological condition at the time the test is taken.

NKMax America has developed and determined the performance characteristics of this test with a full method validation as a laboratory developed test (LDT). This test has not been cleared or approved by the US Food and Drug Administration. This laboratory is regulated under CLIA as qualified to perform high-complexity clinical laboratory testing. This test is used for clinical purposes. It should not be regarded as investigational or for research.

NK Vue™ is a trademark of ATGen Co., Ltd.

# More About NK Cell Activity Monitoring

Low NK cell activity does not indicate a disease or an illness, however it can indicate the health of the immune system and alert physicians when more aggressive surveillance is required, or trigger additional testing.

## NATURAL KILLER (NK) CELLS

Natural killer (NK) cells are a type of white blood cell or "lymphocyte" in your immune system. These cells play a key role as the first line of defense against dangerous foreign cells. When a foreign cell appears, the NK cells recognize it and work to destroy it.

## NK CELL ACTIVITY

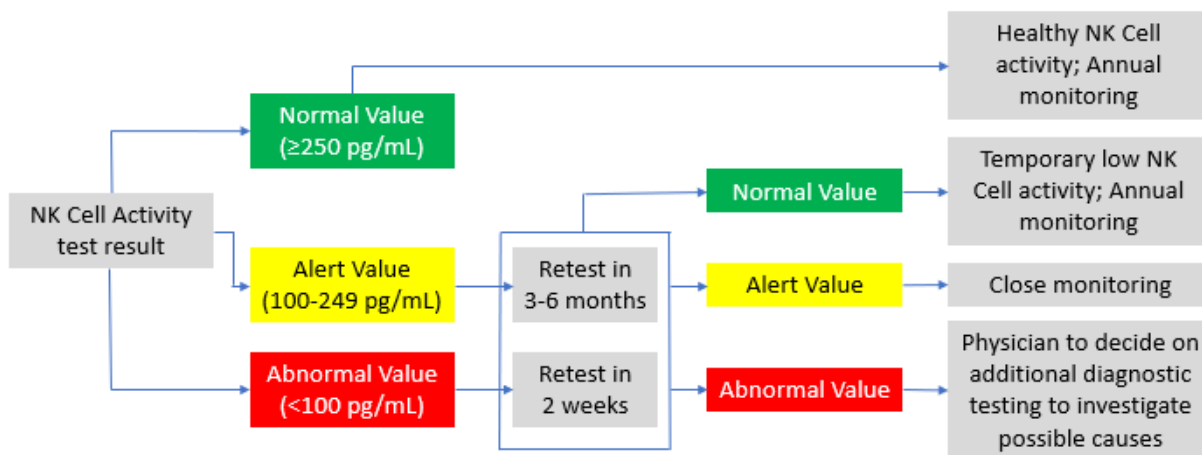
NK cell activity indicates how well your body can defend itself against dangerous foreign cells. Measuring your NK cell activity can help your doctor assess the strength of your immune system for fighting off infections or cancer. Based on studies in Canada and Korea, less than 10% of healthy individuals have been found to have low NKA <250 pg/mL.

## LIFESTYLE AFFECTS NK CELL FUNCTION

A number of conditions and diseases may affect your NK cell activity. For example, people who are highly stressed or who are not sleeping or eating well may have lower NK cell activity. Based on your NK cell activity results, your doctor may recommend lifestyle changes (weight loss, exercise, smoking cessation, diet changes, immune supplement, etc.), which could help to improve your immune system and your ability to fight cancer and other diseases.

## NK VUE TESTING RECOMMENDATIONS

Based on the current experience with NK Vue™ in Korea and Canada, we can provide the following preliminary recommendations. This recommendation is provided as a tool to help in the interpretation of results; it is not a guideline. This recommendation may be changed at any time without notice when new clinical data becomes available. Values provided are based on NKMax laboratory validation studies and are only applicable to testing performed by NKMax.



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