

SAA

Serum amyloid A protein(SAA) detection kit (colloidal gold immunochromatography)

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1、Product introduction

antitative or semi-quantitative detection of SAA in whole blood, serum or plasma in vitro. The concentration of serum amyloid A is a sensitive index reflecting early inflammation of infectious diseases. It is helpful to diagnose inflammation, evaluate its activity, monitor its activity and treatment.



2、Advantages of SAA over CRP

Early rise, large range and high sensitivity, especially in the early stage of acute bacterial infection, the advantage of detecting SAA is more significant!

SAA in viral infectious diseases, SAA is significantly increased and CRP does not increase. Therefore, SAA can be used as a sensitive index for the diagnosis of viral infection. SAA combined with CRP detection can identify bacteria and virus infection, and provide new evidence!

SAA combined with CRP and PCT detection is conducive to early diagnosis of infective diseases (neonatal septicemia and sepsis) in children!

3、SAA combined with CRP

SAA combined with CRP detection can effectively identify the types of infective diseases in children, and the specificity and sensitivity of the diagnosis are relatively high.

Energy efficiency analysis of SAA, CRP detection and combined detection in differentiating bacterial infection from viral infection:

Index	Sensitivity [% (n/N)]	Specificity [% (n/N)]
SAA	82.7 (67/81)	78.4 (120/153)
CRP	87.6 (71/81)	75.8 (117/153)
SAA+CRP	92.6 (75/81)	83.7 (128/153)

4、SAA combined with PCT

Clinically, neonatal bacterial infection has high incidence rate, and no specific evidence is given. Combined detection of SAA and PCT levels is helpful for rapid and effective diagnosis.

Sensitivity, specificity and accuracy of combined detection of SAA and PCT (%) :

Index	Sensitivity	Specificity	Accuracy
SAA	85.25	92.73	91.15
PCT	73.77	87.27	82.3
SAA+PCT	93.41	97.77	92.51

5、SAA combined with CRP、PCT

Comparison of serum SAA、CRP and PCT positive rates (%) in sepsis group:

Group	Number	SAA	CRP	PCT
Sepsis group	30	96.7	73.3	90
Virusin fection group	34	100	29.4	8.8

6、SAA clinical application expansiondetection

Cancer: research shows that the serum SAA levels of patients with liver cancer, breast cancer, lung cancer and other tumors have increased to varying degrees.

Transplant rejection: the study shows that transplant patients are often prone to rejection after using immunosuppressants. At this time, the change of CRP concentration is not obvious, but the level of SAA is significantly increased! SAA is the preferred serological index in monitoring renal transplantation rejection!

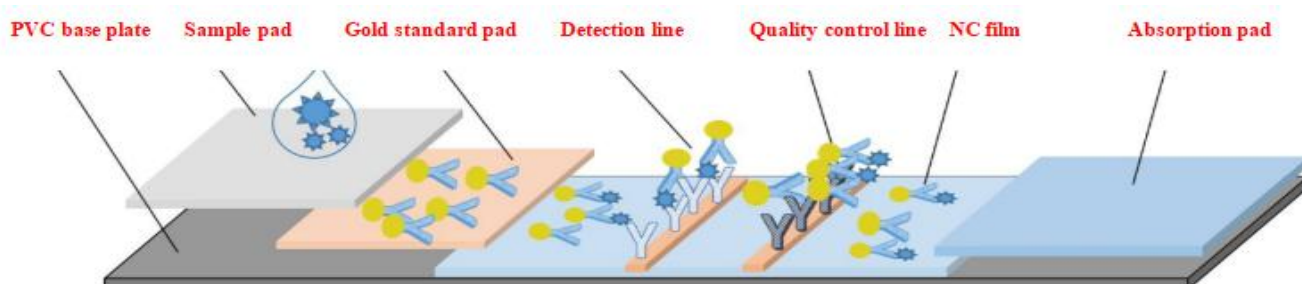
Coronary heart disease: when the levels of SAA and CRP rise, the probability of acute myocardial infarction in patients with coronary heart disease increases significantly, and the prognosis is poor!

Amyloidosis: the detection of serum SAA level is helpful to understand the degree of disease and treatment prognosis of patients with amyloidosis. It is of great significance for the diagnosis and treatment of amyloidosis!

Rheumatoid arthritis: the level of serum SAA in patients with rheumatoid arthritis is significantly increased, and it is positively correlated with the increase of CRP and ESR, which are important reference indexes for rheumatoid arthritis activity evaluation. Therefore, SAA can be used as an important index for potential rheumatoid arthritis activity evaluation!

7、 Product principle

The reagent adopts colloidal gold immunochromatography and double antibody sandwich principle. Colloidal gold quantitative detection reagent uses colloidal gold particles to couple antibodies to gold particles under certain conditions. During detection, SAA in human whole blood, serum or plasma was quantitatively detected by immunochromatographic detection technology.



8、 Inspection method

semi-quantitative detection: compare with the reference colorimetric chart to obtain the semi quantitative results of SAA.

Quantitative detection: interpret the results with colloidal gold analyzer for 5-10min.



9、 Product advantages

methodological advantages: simple operation! Quick diagnosis, 5-10 minutes to observe the results! Visible to the naked eye!

performance advantages: high sensitivity! Good accuracy! Good repeatability!

Wide linear range!