

Accepted Manuscript

Magnetized carbon nanotubes for visual detection of proteins directly in whole blood

Yan Huang, Yongqiang Wen, Kwaku Baryeh, Sunitha Takalkar, Michelle Lund, Xueji Zhang, Guodong Liu



PII: S0003-2670(17)31074-7

DOI: [10.1016/j.aca.2017.09.025](https://doi.org/10.1016/j.aca.2017.09.025)

Reference: ACA 235450

To appear in: *Analytica Chimica Acta*

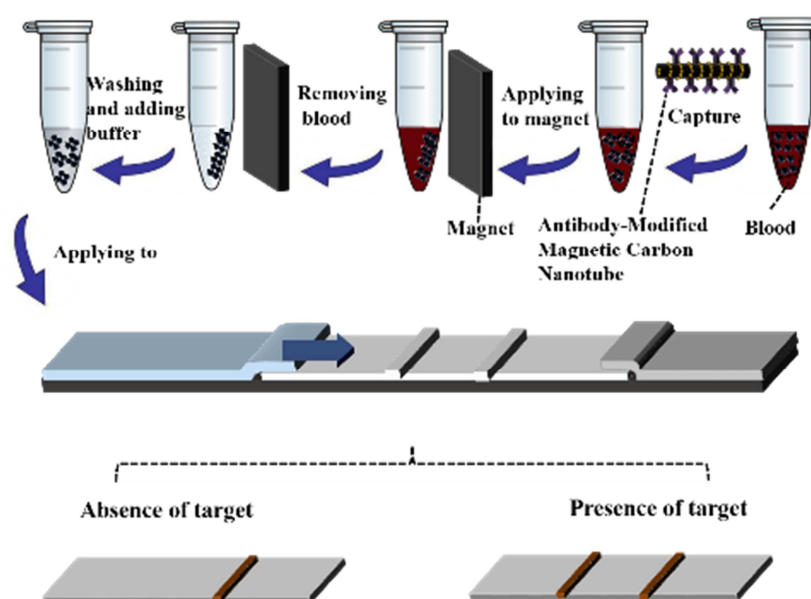
Received Date: 18 May 2017

Revised Date: 11 September 2017

Accepted Date: 12 September 2017

Please cite this article as: Y. Huang, Y. Wen, K. Baryeh, S. Takalkar, M. Lund, X. Zhang, G. Liu, Magnetized carbon nanotubes for visual detection of proteins directly in whole blood, *Analytica Chimica Acta* (2017), doi: 10.1016/j.aca.2017.09.025.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Combining the superpara-magnetism of Fe_3O_4 nanoparticles and the outstanding mechanical properties of carbon nanotubes, magnetized carbon nanotube-based lateral flow strip biosensor was first used for visual detection of proteins directly in whole blood avoiding complex purification and sample pretreatment.

Download English Version:

<https://daneshyari.com/en/article/7554771>

Download Persian Version:

<https://daneshyari.com/article/7554771>

[Daneshyari.com](https://daneshyari.com)