

# Comprehensive fluorogenic derivatization-liquid chromatography/tandem mass spectrometry proteomic analysis of colorectal cancer cell to identify biomarker candidate.

*Colorectal Neoplasms* 14-3-3 protein zeta/delta Cystatin-B L-lactate dehydrogenase B chain

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## Content

A study by researchers at Musashino University has been highlighted as noteworthy because it may provide evidence for potential novel, emerging or re-emerging targets for one or more diseases. Our analysis of the protein-disease associations identified in their paper [1] is given below. The table shows the total number of papers recorded in TIS since April 2008 that report the *same protein-disease associations* and also the number found in an analysis of the preceding ten years of PubMed abstracts.

Protein-Disease associations identified in this paper		Number of papers (including this one) citing the association	
Protein Name	Disease Name	04/2008-25/09/2012	04/1999-03/2008
L-lactate dehydrogenase B chain	Colorectal Neoplasms	2	1
Thioredoxin	Colorectal Neoplasms	2	0
Glyceraldehyde-3-phosphate dehydrogenase	Colorectal Neoplasms	5	28
GTP-binding nuclear protein Ran	Colorectal Neoplasms	4	1
Cystatin-B	Colorectal Neoplasms	1	1
14-3-3 protein zeta/delta	Colorectal Neoplasms	2	1

## Conclusions:

This paper may include evidence suggesting that L-lactate dehydrogenase B chain is a **potential emerging target** for Colorectal Neoplasms.

This paper may include evidence suggesting that Cystatin-B is a **potential re-emerging target** for Colorectal Neoplasms.

This paper may include evidence suggesting that 14-3-3 protein zeta/delta is a **potential emerging target** for Colorectal Neoplasms.

## References

1. **Comprehensive fluorogenic derivatization-liquid chromatography/tandem mass spectrometry proteomic analysis of colorectal cancer cell to identify biomarker candidate.** Koshiyama A., Ichibangase T., Imai K. *Biomed. Chromatogr.* (2012)