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Antirecoverin autoantibodies in the patient with non-small cell lung cancer but without cancer-associated retinopathy

- Marina S. Savchenko

Marina S. Savchenko
Affiliations
Laboratory of Biomedicine, Department of Cell Signalling, A.N. Belozersky Institute of Physico-Chemical Biology, M.V. Lomonosov Moscow State University, 119992 Moscow, Russia
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Alexandr V. Bazhin
Affiliations
Laboratory of Biomedicine, Department of Cell Signalling, A.N. Belozersky Institute of Physico-Chemical Biology, M.V. Lomonosov Moscow State University, 119992 Moscow, Russia
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Olga N. Shifrina
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Pulmonology Research Institute, 105077 Moscow, Russia
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Eugenia A. Kogan
Affiliations
I.M. Sechenov Moscow Medical Academy, 119881 Moscow, Russia
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Alexandr G. Chuchalin
Affiliations
Pulmonology Research Institute, 105077 Moscow, Russia
Search for articles by this author
- Pavel P. Philippov
Pavel P. Philippov
Correspondence
Corresponding author. Tel.: +7-095-939-5017; fax: +7-095-939-0978
Contact
Affiliations
Laboratory of Biomedicine, Department of Cell Signalling, A.N. Belozersky Institute of Physico-Chemical Biology, M.V. Lomonosov Moscow State University, 119992 Moscow, Russia
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Previous ArticlePhase I/II study of concurrent twice-weekly paclitaxel and weekly cisplatin with radiation therapy for stage III non-small cell lung cancer
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Abstract

The goal of the present study was to analyze serum and tumor tissue of a patient with non-small cell lung cancer (NSCLC) for the presence of autoantibodies against recoverin (anti-Rc) and recoverin expression, correspondingly. Using immunoblotting with recombinant recoverin as an antigen, we have detected anti-

Rc in serum of the patient. At the same time, the patient did not manifest any signs of cancer-associated retinopathy (CAR). Polyclonal (monospecific) antibodies against recoverin used for immunohistochemical analysis of the patient's tumor revealed recoverin expression in the tumor sections. To our knowledge, this is the first case of the presence of serum anti-Rc in NSCLC patients in the absence of paraneoplastic retina degeneration.

Keywords

- Recoverin
- Non-small cell lung carcinoma
- Paraneoplastic antigen
- Autoantibody
- Cancer-associated retinopathy

Abbreviations:

anti-Rc, autoantibodies against recoverin (), CAR, cancer-associated retinopathy (), NSCLC, non-small cell lung carcinoma (), SCLC, small cell lung carcinoma ()

References

1. Dropcho E.J.
   Remote neurologic manifestations of cancer.
   Neurol. Clin. 2002; 20: 85-122
   View in Article
   - Scopus (38)
   - PubMed
   - Abstract
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2. Inuzuka T.
   Autoantibodies in paraneoplasic neurological syndrome.
   Am. J. Med. Sci. 2000; 319: 217-226
   View in Article
   - Scopus (26)
   - PubMed
   - Crossref
   - Google Scholar

3. Posner J.B.
Dalmau J.O.
Paraneoplasic syndromes of the nervous system.
Clin. Chem. Lab. Med. 2000; 38: 117-122
View in Article
Scopus (24)
PubMed
Crossref
Google Scholar
4. Dizhoor A.M.
Nekrasova E.R.
Philippov P.P.
New 26 kDa protein specific for photoreceptor cells, capable of binding to immobilized delipidated rhodopsin.
Biokhimia. 1991; 56: 225-228
View in Article
PubMed
Google Scholar
5. Dizhoor A.M.
Ray S.
Kumar S.
et al.
Recoverin: a calcium sensitive activator of retinal rod guanylate cyclase.
Science. 1991; 251: 915-918
View in Article
Scopus (466)
PubMed
Crossref
Google Scholar
6. Thirkill C.E.
Roth A.M.
Keltner J.L.
Cancer-associated retinopathy.
Arch. Ophtalmol. 1987; 105: 372-375
View in Article
Scopus (204)
PubMed
Crossref
Google Scholar
7. Polans A.S.
Buczylko J.
Crabb J.
Palczewcki K.
A photoreceptor calcium binding protein is recognized by autoantibodies obtained from patients with cancer-associated retinopathy.
J. Cell. Biol. 1991; 112: 981-989
View in Article
Scopus (208)
PubMed
Crossref
Google Scholar
8. Adamus G.
Amundson D.
MacKay P.G.
Long-term persistence of anti-recoverin antibodies in endometrial cancer-associated retinopathy.
Arch. Ophtalmol. 1998; 116: 251-253
View in Article

- PubMed
- Google Scholar

9. Klingele T.G.
   Burde R.M.
   Rappazzo J.A.
   et al.
   Paraneoplastic retinopathy.
   J. Clin. Neuroophtalmol. 1984; 4: 239-245
   View in Article
   - PubMed
   - Google Scholar
10. Eltabbakh G.H.
    Hoogereland D.L.
    Paraneoplastic retinopathy associated with uterine sarcoma.
    Gynecol. Oncol. 1995; 58: 120-123
    View in Article
    - Scopus (42)
    - PubMed
    - Crossref
    - Google Scholar
11. Salgia R.
    Hedges T.R.
    Rizk M.
    et al.
    Cancer-associated retinopathy in a patient with non-small cell lung carcinoma.
    Lung Cancer. 1998; 22: 149-152
    View in Article
    - Scopus (25)
    - PubMed
    - Abstract
    - Full Text
    - Full Text PDF
    - Google Scholar
12. Thirkill C.E.
    Keltner J.L.
    Tyler N.K.
    Roth A.M.
    Antibody reactions with retina and cancer-associated antigens in 10 patients with cancer-associated retinopathy.
    Arch. Ophtalmol. 1993; 111: 931-937
    View in Article
    - Scopus (100)
    - PubMed
    - Crossref
    - Google Scholar
13. Polans A.S.
    Witkowska D.
    Haley T.L.
    et al.
    Recoverin, a photoreceptor- specific calcium-binding protein, is expressed by the tumor of a patient with cancer-associated retinopathy.
    Proc. Natl. Acad. Sci. USA. 1995; 92: 9176-9180
    View in Article
    - Scopus (179)
    - PubMed
    - Crossref
    - Google Scholar

14. Thirkill C.E.
Lung cancer-induced blindness.
Lung cancer. 1996; 14: 253-264
View in Article
- Scopus (19)
- PubMed
- Abstract
- Full Text PDF
- Google Scholar

15. Yamaji Y.
- Matsubara S.
- Yamadori I.
- et al.

Characterization of a small-cell-lung-carcinoma cell line from a patient with cancer-associated retinopathy.
Int. J. Cancer. 1996; 65: 671-676
View in Article
- Scopus (37)
- PubMed
- Crossref
- Google Scholar

16. Bazhin A.V.
- Shifrina O.N.
- Savchenko M.S.
- et al.

Low titre autoantibodies against recoverin in sera of patients with small cell lung cancer but without a loss of vision.
Lung Cancer. 2001; 34: 99-104
View in Article
- Scopus (33)
- PubMed
- Abstract
- Full Text
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17. Senin I.I.
- Zargarov A.A.
- Alekseev A.M.
- et al.

N-Myristoylation of recoverin enhances its efficiency as an inhibitor of rhodopsin kinase.
FEBS Lett. 1995; 376: 87-90
View in Article
- Scopus (66)
- PubMed
- Abstract
- Full Text PDF
- Google Scholar

18. Matsubara S.
- Yamaji Y.
- Fujita T.
- et al.

Cancer-associated retinopathy syndrome: a case of small cell lung cancer expressing recoverin immunoreactivity.
Lung Cancer. 1996; 14: 265-271
View in Article
- Scopus (26)
- PubMed

- Abstract
- Full Text PDF
- Google Scholar

19. Drlicek M.
    Bianchi G.
    Bogliun G.
    et al.
    Antibodies of the anti-Yo and anti-Ri type in the absence of paraneoplastic neurological syndromes: a long-term survey of ovarian cancer patients.
    J. Neurol. 1997; 244: 85-89
    View in Article
    - Scopus (82)
    - PubMed
    - Crossref
    - Google Scholar
20. Graus F.
    Dalmau J.
    Rene R.
    et al.
    Anti-Hu antibodies in patients with small-cell lung cancer: association with complete response to therapy and improved survival.
    J. Clin. Oncol. 1997; 15: 2866-2872
    View in Article
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