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API2-MALT1 fusion oncoprotein directs a unique program of substrate ubiquitination and proteolysis to promote mucosa-associated lymphoid tissue lymphomagenesis

Shaun Rosebeck, Megan S Lin, Kojo SJ Elenitoba-Johnson, Linda M McAllister-Lucas, Peter C Lucas

Abstract

Lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma) is the most common extranodal B cell tumor and accounts for 8% of non-Hodgkin's lymphomas. Gastric MALT lymphoma is the best-studied example and is a prototypical neoplasm that occurs in the setting of chronic inflammation brought on by persistent infection or autoimmune disease. Cytogenetic abnormalities are commonly acquired during the course of disease and the most common is chromosomal translocation t(11;18)(q21;q21), which creates the API2-MALT1 fusion oncoprotein. t(11;18) positive lymphomas can be

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This translocation creates the API2-MALT1 fusion oncoprotein, which comprises a new proteolytic substrate of API2-MALT1, NF-κB-inducing kinase (NIK) [16]. ...

Disruption of MALT1 protease activity within API2-MALT1, via mutation of the ... and deregulated, constitutive NF-κB activation promotes lymphomagenesis.

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2015年9月3日 - *Oncogene*.33:2520-30. doi: 10.1038/onc.2013.195. ... S., Kauffman, M., Jakubowiak, A.J. Novel mechanism of synergistic myeloma cell death via activation of ... L.M., Lucas, P.C. The API2-MALT1 oncoprotein directs a unique program of substrate ubiquitination and proteolysis to promote lymphomagenesis.

[PDF] MALT1 paracaspase cleavage in MALT lymphoma

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API2-MALT1 mediated proteolysis generates a LIM domain only (LMO) ... harboring the